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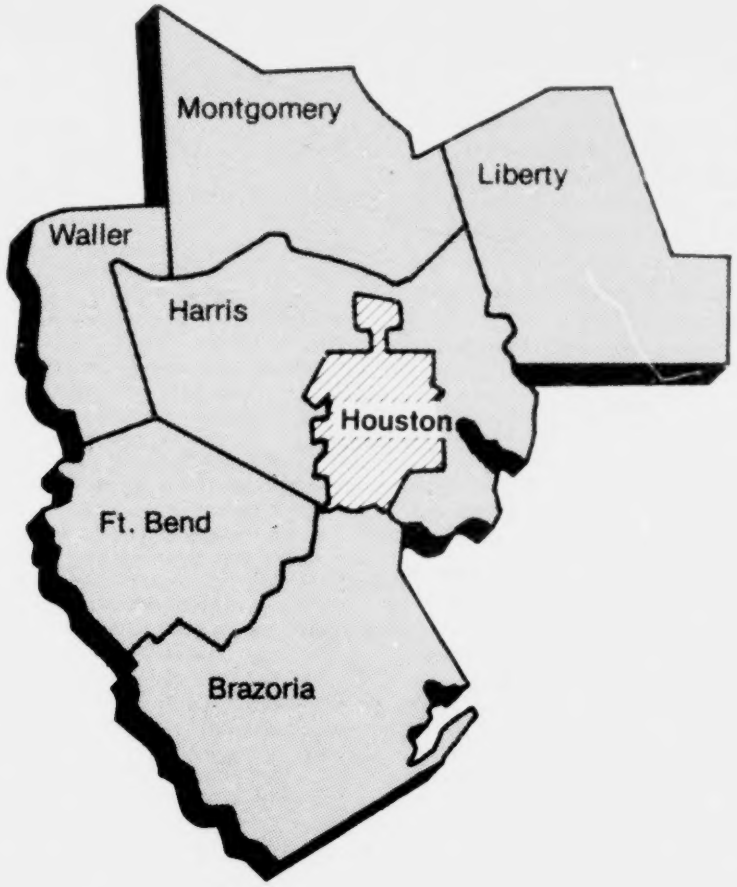
Area Wage Survey

Houston, Texas, Metropolitan Area April 1989

U.S. Department of Labor
Bureau of Labor Statistics

Bulletin 3050-13



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Preface

This bulletin provides results of an April 1989 survey of occupational earnings in the Houston, TX, Standard Metropolitan Statistical Area. The survey was made as part of the Bureau of Labor Statistics' area wage survey program. It was conducted by the Bureau's regional office in Dallas, TX, under the general direction of William P. Hill, Assistant Regional Commissioner for Operations. The Bureau wishes to express its appreciation for the cooperation of the many firms that provided the data on which this bulletin is based.

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Note:

Reports on occupational earnings and employee benefits in Houston are available for the auto dealer repair shops (July 1988), banking (April 1989), and hotels and motels (June 1988) industries. These reports are available from the Bureau's regional offices. Regional offices also have available five summary releases: *Occupational Earnings and Wage Trends in Metropolitan Areas* (3 parts); *Occupational Earnings in All Metropolitan Areas* (combined); and *Wage Differences Among Metropolitan Areas.*

A summary bulletin, *Area Wage Surveys, Selected Metropolitan Areas,* provides data for all areas surveyed under this program during the year. It can be purchased from the Superintendent of Documents or from the BLS Publications Sales Center in Chicago.

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Area Wage Survey

Houston, Texas, Metropolitan Area April 1989

U.S. Department of Labor
Elizabeth Dole, Secretary

Bureau of Labor Statistics
Janet L. Norwood, Commissioner
June 1989

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Introduction

The Bureau of Labor Statistics is restructuring its area wage survey program to reflect changes in the number and geographic boundaries of the Nation's metropolitan statistical areas. In place of annual studies of 70 areas, the new program, when fully implemented in 1990, will cover 32 areas on an annual basis and two groups of 29 areas in alternate years.

This is 1 of the 32 areas being surveyed each year. While occupational earnings are presented annually (A-series tables), information on establishment practices and employee benefits (B-series tables) is presented every fourth year, when Bureau field representatives obtain such data during personal visits to respondents. This report has no B-series tables.

A major consideration in the area wage survey program is the need to describe the level and movement of wages in a variety of labor markets, through the analysis of (1) the level and distribution of wages by occupation, and (2) the movement of wages by occupational category and skill level. The program develops information that may be used for many purposes, including wage and salary administration, collective bargaining, and assistance in determining plant location. Survey results also are used by the U.S. Department of Labor to make wage determinations under the Service Contract Act of 1965.

Earnings

Tables A-1 through A-6 provide estimates of straight-time weekly or hourly earnings for workers in occupations common to a variety of manufacturing and nonmanufacturing industries. Where possible, occupations with related duties (e.g., accounting clerks and payroll clerks) are clustered to facilitate comparison. The occupations are defined in appendix B. For 31 large survey areas, tables A-12 through A-17 provide similar data for establishments employing 500 workers or more.

Table A-7 provides indexes and percent changes in average hourly earnings for office clerical workers, electronic data processing workers, industrial nurses, skilled maintenance trades workers, and unskilled plant workers. Where possible, data are presented for all industries and for manufacturing and nonmanufacturing separately. Data are not presented for skilled maintenance workers in nonmanufacturing because the number of workers employed in this occupational group in nonmanufacturing is too small to warrant separate presentation. This table provides a measure of wage trends after elimination of changes in average earnings caused by employment shifts among establishments as well as turnover of establishments included in survey samples. For further details, see appendix A.

Tables A-8 through A-11 provide measures of pay relationships in establishments. These measures may differ considerably from the pay relationships of overall area averages published in tables A-1 through A-6. See appendix A for details.

Appendixes

Appendix A describes the methods and concepts used in the area wage survey program and provides information on the scope of the survey.

Appendix B provides job descriptions used by Bureau field representatives to classify workers by occupation.

Table A-1. Weekly earnings of office workers in Houston, TX, April 1989

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																				
			Mean[2]	Median[3]	Middle range[4]	160 and under 180	180 – 200	200 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 420	420 – 440	440 – 480	480 – 520	520 – 560	560 – 600	600 – 640	640 – 680	680 and over
Secretarial and keyboarding occupations																										
Secretaries	6,056	39.5	459.50	448.00	390.00– 515.00	–	–	1	–	10	40	87	126	238	338	420	439	548	537	997	885	529	336	256	126	13
Manufacturing	1,459	40.0	484.00	473.00	421.00– 538.00	–	–	1	–	–	1	9	6	39	31	64	80	123	166	228	274	156	115	105	36	25
Nonmanufacturing	4,597	39.5	452.00	442.00	381.00– 508.00	–	–	–	–	10	39	78	120	199	307	356	359	425	371	769	611	373	221	151	90	118
Transportation and utilities	1,110	40.0	467.00	452.00	396.00– 531.00	–	–	–	–	–	8	13	16	26	51	89	89	94	113	185	121	128	76	33	35	33
Secretaries I	749	40.0	374.50	368.00	330.50– 405.50	–	–	1	–	10	33	36	47	83	124	82	115	73	37	61	22	17	5	2	1	–
Manufacturing	71	40.0	355.00	368.00	332.50– 369.50	–	–	1	–	–	1	8	4	7	9	27	7	5	–	1	1	–	–	–	–	–
Nonmanufacturing	678	40.0	376.50	370.50	330.50– 412.00	–	–	–	–	10	32	28	43	76	115	55	108	68	37	60	21	17	5	2	1	–
Transportation and utilities	256	40.0	400.00	392.50	354.50– 433.50	–	–	–	–	–	8	9	12	14	28	36	38	24	32	22	8	17	5	2	1	–
Secretaries II	1,363	40.0	420.50	421.00	373.50– 461.50	–	–	–	–	–	3	18	42	100	90	114	124	181	201	270	133	57	19	9	1	1
Manufacturing	471	40.0	436.50	436.00	404.00– 469.50	–	–	–	–	–	–	1	2	30	20	17	40	55	94	118	50	35	9	–	–	–
Nonmanufacturing	892	40.0	412.00	412.00	361.50– 452.00	–	–	–	–	–	3	17	40	70	70	97	84	126	107	152	83	22	10	9	1	1
Transportation and utilities	117	40.0	457.00	450.00	404.00– 505.50	–	–	–	–	–	–	–	–	–	6	7	13	10	16	25	20	14	2	4	–	–
Secretaries III	2,801	39.5	464.50	460.50	405.00– 518.00	–	–	–	–	–	4	33	37	54	112	210	181	224	272	527	491	291	185	109	49	22
Manufacturing	563	40.0	495.00	491.00	430.00– 551.50	–	–	–	–	–	–	–	–	2	2	19	33	41	63	77	133	77	59	37	17	3
Nonmanufacturing	2,238	39.5	456.50	454.50	397.00– 508.00	–	–	–	–	–	4	33	37	52	110	191	148	183	209	450	358	214	126	72	32	19
Transportation and utilities	611	40.0	465.00	460.50	411.00– 519.50	–	–	–	–	–	–	4	4	11	17	46	37	57	63	135	88	80	45	14	10	–
Secretaries IV	906	39.5	530.00	519.50	461.50– 588.50	–	–	–	–	–	–	–	–	1	12	14	19	69	26	130	216	116	104	92	45	62
Manufacturing	282	40.0	543.00	523.00	501.50– 603.00	–	–	–	–	–	–	–	–	–	–	1	–	22	9	27	78	36	36	50	9	14
Nonmanufacturing	624	39.5	524.00	510.00	453.00– 583.00	–	–	–	–	–	–	–	–	1	12	13	19	47	17	103	138	80	68	42	36	18
Transportation and utilities	74	40.0	588.50	593.00	550.00– 656.00	–	–	–	–	–	–	–	–	1	–	–	1	2	1	1	5	12	17	11	18	5
Secretaries V	231	39.5	626.50	617.50	542.50– 683.00	–	–	–	–	–	–	–	–	–	–	–	–	1	1	9	23	42	23	44	30	58
Manufacturing	72	38.5	599.00	596.50	524.00– 645.50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	5	12	8	11	18	10	3
Nonmanufacturing	159	39.5	639.00	617.50	547.00– 724.50	–	–	–	–	–	–	–	–	–	–	–	–	1	1	4	11	34	12	26	20	50
Transportation and utilities	52	40.0	670.50	694.00	583.50– 743.50	–	–	–	–	–	–	–	–	–	–	–	–	1	1	2	–	5	7	2	6	28
Stenographers	91	40.0	409.00	378.00	340.00– 509.50	–	–	–	–	2	4	3	4	8	13	14	4	5	2	2	16	13	–	–	–	–
Nonmanufacturing	83	40.0	405.50	375.00	339.50– 516.00	–	–	–	–	2	4	3	4	8	11	14	4	6	–	2	12	13	–	–	–	–
Transportation and utilities	53	40.0	435.50	419.50	349.00– 516.00	–	–	–	–	1	2	1	3	6	4	5	–	5	–	1	12	13	–	–	–	–
Stenographers I	61	40.0	414.50	411.50	336.50– 516.00	–	–	–	–	2	4	3	4	6	5	6	–	6	–	2	12	11	–	–	–	–
Nonmanufacturing	61	40.0	414.50	411.50	336.50– 516.00	–	–	–	–	2	4	3	4	6	5	6	–	6	–	2	12	11	–	–	–	–
Transportation and utilities	51	40.0	432.00	416.00	339.50– 516.00	–	–	–	–	1	2	1	3	6	4	5	–	5	–	1	12	11	–	–	–	–
Typists	294	39.0	321.00	329.50	304.00– 345.50	–	8	2	1	5	17	38	62	54	89	9	4	5	–	–	–	–	–	–	–	–
Nonmanufacturing	289	39.0	322.50	332.00	304.50– 345.50	–	8	–	–	4	17	38	61	54	89	9	4	5	–	–	–	–	–	–	–	–
Typists I	116	39.5	302.50	315.50	276.50– 319.00	–	8	2	1	4	15	20	38	9	10	4	3	2	–	–	–	–	–	–	–	–
Nonmanufacturing	111	39.5	305.50	318.50	282.50– 321.50	–	8	–	–	3	15	20	37	9	10	4	3	2	–	–	–	–	–	–	–	–
Typists II	178	38.5	333.00	337.50	319.00– 345.50	–	–	–	–	1	2	18	24	45	79	5	1	3	–	–	–	–	–	–	–	–
Nonmanufacturing	178	38.5	333.00	337.50	319.00– 345.50	–	–	–	–	1	2	18	24	45	79	5	1	3	–	–	–	–	–	–	–	–
Word processors	1,070	40.0	399.00	381.00	338.00– 442.00	–	–	–	–	–	18	32	127	92	150	112	116	74	79	115	57	32	16	19	19	12
Nonmanufacturing	629	40.0	366.00	354.50	313.50– 399.50	–	–	–	–	–	18	27	120	65	110	69	63	29	39	62	17	3	3	2	2	–
Word processors I	638	40.0	357.50	341.50	313.50– 393.50	–	–	–	–	–	18	29	122	82	137	60	53	47	34	35	16	5	–	–	–	–
Word processors II	432	40.0	460.00	438.50	389.00– 508.00	–	–	–	–	–	–	3	5	10	13	52	63	27	45	80	41	27	16	19	19	12
Nonmanufacturing	266	40.0	417.50	404.00	374.00– 454.00	–	–	–	–	–	–	3	5	4	11	47	53	23	36	57	17	3	3	2	2	–

See footnotes at end of tables.

Table A-1. Weekly earnings of office workers in Houston, TX, April 1989 —Continued

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																				
			Mean[3]	Median[3]	Middle range[3]	160 and under 180	180 – 200	200 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 420	420 – 440	440 – 480	480 – 520	520 – 560	560 – 600	600 – 640	640 – 680	680 and over
Key entry operators	1,051	40.0	325.50	311.50	288.50– 354.50	–	–	4	25	55	141	135	195	166	85	57	67	36	34	22	23	5	1	–	–	–
Manufacturing	148	40.0	324.00	319.00	270.00– 371.00	–	–	–	9	9	29	13	14	10	20	13	16	5	4	2	3	1	–	–	–	–
Nonmanufacturing	903	40.0	325.50	311.50	288.50– 349.50	–	–	4	16	46	112	122	181	156	65	44	51	31	30	20	20	4	1	–	–	–
Transportation and utilities	87	40.0	372.00	360.00	320.00– 408.00	–	–	–	–	1	2	5	5	22	8	11	6	9	1	9	8	–	–	–	–	–
Key entry operators I	701	40.0	317.00	300.00	277.00– 341.00	–	–	4	25	28	126	112	94	118	55	29	43	30	27	8	2	–	–	–	–	–
Manufacturing	110	40.0	302.00	288.50	265.50– 346.00	–	–	–	9	9	28	13	14	6	17	4	4	4	1	–	1	–	–	–	–	–
Nonmanufacturing	591	40.0	319.50	307.00	280.00– 341.00	–	–	4	16	19	98	99	80	112	38	25	39	26	26	8	1	–	–	–	–	–
Transportation and utilities	60	40.0	340.00	329.50	320.00– 363.00	–	–	–	–	1	2	5	5	22	6	9	5	5	–	1	–	–	–	–	–	–
Key entry operators II	35	40.0	342.50	323.00	300.00– 371.50	–	–	–	–	–	27	15	23	101	48	30	28	24	6	7	14	21	5	1	–	–	–
Nonmanufacturing	312	40.0	337.00	312.00	300.00– 359.00	–	–	–	–	–	27	14	23	101	44	27	19	12	5	4	12	19	4	1	–	–	–
Transportation and utilities	27	39.5	442.50	441.00	406.50– 487.50	–	–	–	–	–	–	–	–	–	2	3	1	4	1	8	8	–	–	–	–	–
Other clerical occupations																										
Accounting clerks	6,988	40.0	361.00	348.00	292.00– 415.50	–	–	35	251	315	732	565	720	520	616	652	525	445	378	541	286	183	139	36	23	26
Manufacturing	1,966	40.0	390.00	374.50	323.00– 431.50	–	–	6	18	21	77	99	230	180	196	241	185	149	123	148	102	66	49	27	23	26
Nonmanufacturing	5,022	40.0	350.00	340.00	280.00– 404.50	–	–	29	233	294	655	466	490	340	420	411	340	296	255	393	184	117	90	9	–	–
Transportation and utilities	1,310	40.0	359.00	332.50	276.00– 438.50	–	–	–	17	19	311	129	116	91	34	91	34	92	51	208	43	33	40	1	–	–
Accounting clerks I	806	40.0	306.50	279.00	263.00– 336.00	–	–	6	44	19	339	71	68	68	37	42	20	9	2	78	1	2	–	–	–	–
Nonmanufacturing	642	40.0	301.50	276.00	263.00– 312.00	–	–	–	35	9	328	68	48	39	8	17	6	7	–	75	–	2	–	–	–	–
Accounting clerks II	3,391	40.0	330.00	319.00	280.00– 371.00	–	–	27	193	262	362	438	417	288	378	306	218	149	93	160	28	32	37	1	2	–
Manufacturing	975	40.0	351.00	340.50	300.00– 376.00	–	–	–	9	11	62	81	177	127	130	155	64	36	24	52	17	24	3	1	2	–
Nonmanufacturing	2,416	40.0	321.50	301.50	268.00– 366.00	–	–	27	184	251	300	357	240	161	248	151	154	113	69	108	11	8	34	–	–	–
Transportation and utilities	404	40.0	374.00	365.50	296.50– 415.50	–	–	–	–	10	20	74	51	25	17	51	6	60	1	53	–	2	34	–	–	–
Accounting clerks III	2,106	40.0	405.50	393.50	346.00– 445.50	–	–	–	4	18	29	50	222	135	169	275	206	194	243	197	149	100	71	20	12	12
Manufacturing	559	39.5	426.50	407.00	374.00– 461.50	–	–	–	–	–	4	15	33	22	27	58	88	70	80	54	29	20	23	12	12	12
Nonmanufacturing	1,547	40.0	398.00	381.00	340.00– 441.00	–	–	–	4	18	25	35	189	113	142	217	118	124	163	143	120	80	48	8	–	–
Transportation and utilities	264	40.0	390.50	390.00	332.00– 439.50	–	–	–	–	–	–	–	52	28	13	27	22	15	42	51	8	5	–	–	–	–
Accounting clerks IV	542	40.0	435.00	423.00	386.00– 486.00	–	–	–	–	–	–	4	13	27	31	29	76	84	33	96	92	36	13	4	4	–
Manufacturing	159	40.0	459.00	452.50	407.00– 516.00	–	–	–	–	–	–	–	–	2	9	3	14	32	10	29	39	9	5	3	4	–
Nonmanufacturing	383	39.5	425.50	415.50	384.50– 473.00	–	–	–	–	–	–	4	13	25	22	26	62	52	23	67	53	27	8	1	–	–
Transportation and utilities	137	40.0	466.50	479.00	429.00– 517.00	–	–	–	–	–	–	–	–	13	3	1	6	10	8	29	35	25	6	1	–	–
Payroll clerks	481	40.0	392.00	362.50	314.00– 461.00	–	–	–	10	23	17	30	66	18	67	41	21	32	22	30	37	23	30	5	6	3
Manufacturing	165	40.0	424.50	407.50	355.50– 484.50	–	–	–	2	1	–	1	25	4	29	13	4	15	9	9	23	8	8	5	6	3
Nonmanufacturing	316	40.0	375.00	354.50	300.00– 433.00	–	–	–	8	22	17	29	41	14	38	28	17	17	13	21	14	15	22	–	–	–
Transportation and utilities	72	40.0	431.50	426.50	340.00– 511.00	–	–	–	–	–	–	8	4	5	4	–	3	11	2	8	12	15	–	–	–	–
File clerks	572	39.5	297.00	280.00	242.50– 328.50	–	14	32	63	106	64	71	46	49	46	27	11	6	3	8	12	5	3	2	1	3
Nonmanufacturing	446	39.5	278.00	264.50	240.00– 319.00	–	14	32	63	98	56	52	25	39	37	13	5	3	–	–	4	3	2	–	–	–
File clerks I	354	40.0	260.00	254.00	231.50– 287.50	–	14	28	63	99	48	46	22	12	9	13	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	308	40.0	255.50	253.50	230.50– 269.00	–	14	28	63	92	43	31	9	7	8	13	–	–	–	–	–	–	–	–	–	–
File clerks II	195	39.0	336.50	328.50	295.00– 353.00	–	–	4	–	7	16	25	24	37	37	14	8	6	2	5	7	1	2	–	–	–
Nonmanufacturing	132	39.0	322.00	328.50	295.00– 345.50	–	–	4	–	6	13	21	16	32	29	–	3	3	–	–	2	1	2	–	–	–
Messengers	304	39.5	265.00	253.50	235.00– 293.00	4	4	10	84	62	46	29	23	32	3	4	2	–	–	–	1	–	–	–	–	–
Nonmanufacturing	261	39.5	262.00	253.50	234.00– 284.00	4	4	7	79	52	42	24	22	22	–	3	1	–	–	–	1	–	–	–	–	–
Transportation and utilities	38	40.0	288.00	281.00	272.50– 293.00	–	–	–	–	–	17	14	6	–	–	–	–	–	–	–	–	–	–	–	–	–
Order clerks	359	40.0	301.50	299.00	274.00– 311.50	–	–	–	18	–	127	60	75	10	31	21	4	5	2	2	2	–	2	–	–	–
Nonmanufacturing	199	40.0	288.00	290.00	266.00– 300.00	–	–	–	18	–	77	20	54	–	29	–	–	1	–	–	–	–	–	–	–	–

See footnotes at end of tables.

Table A-1. Weekly earnings of office workers in Houston, TX, April 1989 —Continued

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																			
			Mean[3]	Median[4]	Middle range[5]	160 and under 180	180 – 200	200 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 420	420 – 440	440 – 480	480 – 520	520 – 560	560 – 600	600 – 640	640 – 680	680 and over
Order clerks I	277	40.0	292.00	277.00	274.00– 311.50	–	–	–	18	–	127	60	21	10	31	–	4	4	2	–	–	–	–	–	–	–
Receptionists	242	40.0	289.50	294.00	220.00– 315.00	–	12	22	38	4	18	45	44	12	7	9	8	20	1	1	–	–	1	–	–	–
Nonmanufacturing	204	40.0	293.50	294.50	245.00– 313.00	–	12	–	36	4	18	41	43	10	5	9	3	20	–	1	–	–	–	–	–	–
Switchboard operators	644	40.0	279.00	270.00	218.50– 325.50	8	70	86	51	83	31	51	96	29	57	36	24	5	2	13	1	1	–	–	–	–
Nonmanufacturing	609	40.0	275.50	260.00	218.50– 315.00	8	70	86	50	83	28	50	85	24	50	35	22	5	1	10	1	1	–	–	–	–
Transportation and utilities	34	40.0	315.50	325.00	260.00– 331.00	–	–	–	–	–	11	1	4	11	1	2	2	2	–	–	–	–	–	–	–	–
Switchboard operator-receptionists	1,198	39.5	281.50	280.00	240.00– 306.00	–	70	62	115	163	157	216	196	51	60	55	8	30	2	–	11	2	–	–	–	–
Manufacturing	229	40.0	319.00	317.50	260.00– 369.50	–	9	1	23	23	4	37	20	27	13	40	5	12	2	–	11	2	–	–	–	–
Nonmanufacturing	969	39.5	272.50	279.00	240.00– 300.00	–	61	61	92	140	153	179	176	24	47	15	3	18	–	–	–	–	–	–	–	–
Transportation and utilities	104	40.0	285.50	288.50	265.50– 300.00	–	–	–	16	–	14	36	32	2	–	–	3	1	–	–	–	–	–	–	–	–

* Workers were distributed as follows: 9 at $680 to $720, 22 at $720 to $760, 12 at $760 to $800, 5 at $800 to $840, and 10 at $840 and over.

Also see footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers in Houston, TX, April 1989

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																					
			Mean[3]	Median[4]	Middle range[5]	220 and under 240	240 – 280	280 – 320	320 – 360	360 – 400	400 – 440	440 – 480	480 – 520	520 – 560	560 – 600	600 – 640	640 – 680	680 – 720	720 – 760	760 – 800	800 – 880	880 – 960	960 – 1040	1040 – 1120	1120 – 1200	1200 and over
Computer systems analysts	2,391	40.0	844.50	825.50	697.00– 944.50	–	–	–	–	–	–	56	41	58	64	134	189	164	173	186	413	355	174	125	100	159
Manufacturing	631	40.0	768.00	756.00	672.00– 844.50	–	–	–	–	–	–	7	3	9	5	60	93	82	60	66	135	62	33	8	7	1
Nonmanufacturing	1,760	40.0	872.00	854.50	716.00– 998.50	–	–	–	–	–	–	49	38	49	59	74	96	82	113	120	278	293	141	117	93	158
Transportation and utilities	382	40.0	730.50	750.00	589.50– 881.50	–	–	–	–	–	–	49	15	21	14	21	26	21	29	25	60	77	22	2	–	–
Computer systems analysts I	544	40.0	627.00	637.50	557.00– 687.00	–	–	–	–	–	–	56	34	51	48	91	116	67	36	23	13	9	–	–	–	–
Nonmanufacturing	309	40.0	605.00	587.50	518.50– 674.00	–	–	–	–	–	–	49	31	42	43	34	38	19	17	15	12	9	–	–	–	–
Computer systems analysts II	841	40.0	803.00	806.50	726.00– 881.00	–	–	–	–	–	–	–	7	7	16	43	55	66	93	124	219	139	54	18	–	–
Manufacturing	231	40.0	782.50	783.50	732.50– 829.50	–	–	–	–	–	–	–	–	–	–	3	15	33	36	47	76	19	2	–	–	–
Nonmanufacturing	610	40.0	810.50	817.00	723.00– 902.50	–	–	–	–	–	–	–	7	7	16	40	40	33	57	77	143	120	52	18	–	–
Transportation and utilities	82	40.0	713.00	682.00	635.00– 763.00	–	–	–	–	–	–	–	–	–	2	19	20	9	10	6	10	5	1	–	–	–
Computer systems analysts III	756	40.0	941.50	906.00	829.00–1056.00	–	–	–	–	–	–	–	–	–	–	–	18	31	39	39	166	171	89	79	64	60
Manufacturing	149	40.0	892.50	879.50	828.50– 941.00	–	–	–	–	–	–	–	–	–	–	–	–	1	5	11	58	43	21	5	5	–
Nonmanufacturing	607	40.0	953.50	914.00	829.50–1088.50	–	–	–	–	–	–	–	–	–	–	–	18	30	34	28	108	128	68	74	59	60
Transportation and utilities	138	40.0	833.00	833.50	777.50– 884.50	–	–	–	–	–	–	–	–	–	–	–	5	8	16	16	45	40	8	–	–	–
Computer systems analysts IV	250	40.0	1164.00	1152.00	986.50–1353.50	–	–	–	–	–	–	–	–	–	–	–	–	–	5	–	15	36	31	28	36	* 99
Nonmanufacturing	234	40.0	1171.00	1165.50	971.00–1363.00	–	–	–	–	–	–	–	–	–	–	–	–	–	5	–	15	36	21	25	34	98
Computer programmers	1,922	40.0	631.50	624.50	529.00– 719.50	–	–	–	23	4	48	120	228	242	172	186	208	211	174	115	106	57	22	6	–	–
Manufacturing	335	40.0	636.00	627.00	563.00– 688.00	–	–	–	–	2	–	14	23	31	60	58	43	48	16	14	12	14	–	–	–	–
Nonmanufacturing	1,587	40.0	630.50	624.50	523.50– 721.50	–	–	–	23	2	48	106	205	211	112	128	165	163	158	101	94	43	22	6	–	–
Transportation and utilities	174	40.0	618.50	553.00	509.00– 744.50	–	–	–	–	–	12	1	41	36	12	10	8	4	13	8	14	13	2	–	–	–
Computer programmers I	173	40.0	464.00	481.00	427.00– 508.00	–	–	–	23	2	28	28	64	28	–	–	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	155	40.0	458.00	478.50	423.00– 508.00	–	–	–	23	2	28	27	56	19	–	–	–	–	–	–	–	–	–	–	–	–
Transportation and utilities	43	40.0	474.00	481.00	432.00– 508.00	–	–	–	–	–	12	1	28	2	–	–	–	–	–	–	–	–	–	–	–	–
Computer programmers II	626	40.0	544.50	545.00	481.00– 591.00	–	–	–	–	2	20	92	134	126	115	65	41	20	11	–	–	–	–	–	–	–
Manufacturing	114	40.0	554.00	562.50	500.00– 586.50	–	–	–	–	2	–	13	15	17	47	13	2	5	–	–	–	–	–	–	–	–
Nonmanufacturing	512	40.0	542.50	536.00	481.00– 592.50	–	–	–	–	–	20	79	119	109	68	52	39	15	11	–	–	–	–	–	–	–
Transportation and utilities	63	40.0	545.00	534.00	523.00– 569.50	–	–	–	–	–	–	–	12	33	12	5	1	–	–	–	–	–	–	–	–	–
Computer programmers III	846	40.0	672.00	673.00	614.50– 728.00	–	–	–	–	–	–	–	30	88	57	121	147	158	116	71	40	18	–	–	–	–
Manufacturing	193	40.0	689.50	674.00	629.50– 727.00	–	–	–	–	–	–	–	–	5	13	45	40	39	15	13	9	14	–	–	–	–
Nonmanufacturing	653	40.0	667.00	673.00	605.00– 729.50	–	–	–	–	–	–	–	30	83	44	76	107	119	101	58	31	4	–	–	–	–
Computer programmers IV	277	39.5	809.00	790.00	733.50– 871.50	–	–	–	–	–	–	–	–	–	–	–	20	33	47	44	66	39	22	6	–	–
Nonmanufacturing	267	39.5	811.50	797.50	733.50– 883.00	–	–	–	–	–	–	–	–	–	–	–	19	29	46	43	63	39	22	6	–	–
Computer operators	1,398	40.0	430.50	414.50	344.00– 496.00	–	61	144	194	205	206	205	98	109	61	56	25	19	12	2	1	–	–	–	–	–
Manufacturing	292	40.0	447.00	428.00	369.50– 496.00	–	12	20	17	49	62	52	17	15	11	12	13	9	3	–	–	–	–	–	–	–
Nonmanufacturing	1,106	40.0	426.00	411.00	337.50– 497.00	–	49	124	177	156	144	153	81	94	50	44	12	10	9	2	1	–	–	–	–	–
Transportation and utilities	155	40.0	438.50	455.00	372.50– 520.00	–	10	11	11	21	11	35	17	32	2	5	–	–	–	–	–	–	–	–	–	–
Computer operators I	214	39.5	332.00	311.50	295.50– 370.50	–	34	83	25	44	21	4	2	1	–	–	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	180	39.5	329.50	311.50	296.00– 372.00	–	26	78	20	33	20	2	1	–	–	–	–	–	–	–	–	–	–	–	–	–
Computer operators II	647	40.0	388.00	385.50	334.50– 441.00	–	27	58	156	125	118	111	41	6	2	2	1	–	–	–	–	–	–	–	–	–
Manufacturing	126	40.0	405.50	405.50	369.50– 443.50	–	4	14	7	25	42	23	6	–	2	2	1	–	–	–	–	–	–	–	–	–
Nonmanufacturing	521	40.0	383.50	373.00	333.00– 438.50	–	23	44	149	100	76	88	35	6	–	–	–	–	–	–	–	–	–	–	–	–
Computer operators III	367	40.0	476.50	463.00	426.00– 528.50	–	–	3	13	36	66	88	47	74	26	10	4	–	–	–	–	–	–	–	–	–
Manufacturing	91	40.0	462.50	458.00	407.00– 519.00	–	–	1	5	13	18	26	6	10	5	6	1	–	–	–	–	–	–	–	–	–
Nonmanufacturing	276	40.0	481.50	469.50	437.00– 533.50	–	–	2	8	23	48	62	41	64	21	4	3	–	–	–	–	–	–	–	–	–
Transportation and utilities	44	40.0	518.00	526.00	493.00– 541.50	–	–	–	–	1	1	4	14	21	1	2	–	–	–	–	–	–	–	–	–	–

See footnotes at end of tables.

Table A-2. Weekly earnings of professional and technical workers in Houston, TX, April 1989 —Continued

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																			
			Mean[1]	Median[1]	Middle range[1]	220 and under 240	240 – 280	280 – 320	320 – 360	360 – 400	400 – 440	440 – 480	480 – 520	520 – 560	560 – 600	600 – 640	640 – 680	680 – 720	720 – 760	760 – 800	800 – 880	880 – 960	960 – 1040	1040 – 1120	1120 – 1200	1200 and over
Computer operators IV	170	40.0	615.50	613.00	566.50 – 666.00	–	–	–	–	–	1	2	8	28	33	44	20	19	12	2	1	–	–	–	–	–
Nonmanufacturing	129	40.0	612.50	606.00	570.00 – 639.50	–	–	–	–	–	–	1	4	24	29	40	9	10	9	2	1	–	–	–	–	–
Drafters	1,890	40.0	580.00	584.00	480.00 – 700.00	8	31	26	34	97	109	160	179	149	210	158	174	190	217	124	15	5	3	–	1	–
Manufacturing	381	40.0	536.50	535.00	461.50 – 596.00	–	–	10	13	21	16	59	37	75	64	24	35	15	3	–	–	5	3	–	1	–
Nonmanufacturing	1,509	40.0	590.50	600.00	480.00 – 703.50	8	31	16	21	76	93	101	142	74	146	134	139	175	214	124	15	–	–	–	–	–
Transportation and utilities	85	40.0	538.50	512.50	451.00 – 624.00	–	–	–	1	1	18	11	14	2	6	23	5	2	–	1	1	–	–	–	–	–
Drafters II	104	40.0	334.00	326.50	270.00 – 364.50	8	22	15	19	17	14	6	2	–	1	–	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	80	40.0	323.00	300.00	270.00 – 360.00	8	22	14	10	8	12	4	2	–	–	–	–	–	–	–	–	–	–	–	–	–
Drafters III	342	40.0	442.50	439.00	397.00 – 482.50	–	–	2	15	78	79	79	34	40	10	4	1	–	–	–	–	–	–	–	–	–
Manufacturing	101	40.0	468.50	463.00	424.00 – 530.00	–	–	–	4	12	12	35	9	23	4	2	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	241	40.0	431.50	423.50	392.50 – 460.00	–	–	2	11	66	67	44	25	17	6	2	1	–	–	–	–	–	–	–	–	–
Transportation and utilities	35	40.0	466.50	470.50	439.00 – 492.50	–	–	–	–	1	11	10	11	1	1	–	–	–	–	–	–	–	–	–	–	–
Drafters IV	582	40.0	550.00[*]	560.00	496.00 – 596.00	–	–	–	–	2	16	67	119	77	169	71	37	23	1	–	–	–	–	–	–	–
Manufacturing	149	40.0	564.50	563.00	508.00 – 608.50	–	–	–	–	–	2	22	22	26	39	6	20	11	1	–	–	–	–	–	–	–
Nonmanufacturing	433	40.0	545.50	560.00	496.00 – 590.00	–	–	–	–	2	14	45	97	51	130	65	17	12	–	–	–	–	–	–	–	–
Transportation and utilities	39	40.0	607.50	624.00	594.00 – 625.00	–	–	–	–	–	–	1	3	1	5	23	5	1	–	–	–	–	–	–	–	–
Drafters V	844	40.0	692.50	700.00	640.00 – 755.50	–	–	–	–	–	–	8	24	32	30	83	136	167	216	124	15	5	3	–	1	–
Manufacturing	98	40.0	627.50	586.00	554.00 – 646.00	–	–	–	–	–	–	–	6	26	20	16	15	4	2	–	–	5	3	–	1	–
Nonmanufacturing	746	40.0	701.00	703.50	659.00 – 755.50	–	–	–	–	–	–	8	18	6	10	67	121	163	214	124	15	–	–	–	–	–
Electronics technicians	1,077	40.0	516.50	513.50	400.00 – 600.50	–	–	27	21	219	82	94	114	153	84	130	60	20	35	12	22	1	–	–	3	–
Manufacturing	716	40.0	518.00	521.00	398.00 – 588.00	–	–	1	21	161	38	54	82	126	80	48	52	12	19	12	6	1	–	–	3	–
Nonmanufacturing	361	40.0	514.00	513.50	427.00 – 600.50	–	–	26	–	58	44	40	32	27	4	82	8	8	16	–	16	–	–	–	–	–
Transportation and utilities	139	40.0	638.00	600.50	600.50 – 705.00	–	–	–	–	–	8	–	–	3	2	76	8	8	16	–	16	–	–	–	–	–
Electronics technicians I	290	40.0	392.00	380.00	379.00 – 404.00	–	–	27	21	167	37	30	2	2	2	2	–	–	–	–	–	–	–	–	–	–
Electronics technicians II	533	40.0	533.00	523.50	467.00 – 600.50	–	–	–	–	52	45	61	100	75	56	90	12	9	16	–	16	1	–	–	–	–
Manufacturing	252	40.0	523.50	511.00	490.00 – 564.00	–	–	–	–	–	9	51	74	48	54	10	4	1	–	–	–	1	–	–	–	–
Nonmanufacturing	281	40.0	541.50	537.50	427.00 – 600.50	–	–	–	–	52	36	10	26	27	2	80	8	8	16	–	16	–	–	–	–	–
Transportation and utilities	131	40.0	650.00	600.50	600.50 – 705.00	–	–	–	–	–	–	–	–	3	2	78	8	8	16	–	16	–	–	–	–	–
Electronics technicians III	254	40.0	624.00	608.50	552.00 – 660.00	–	–	–	–	–	–	3	12	76	26	38	48	11	19	12	6	–	–	–	3	–
Manufacturing	248	40.0	627.50	613.00	556.00 – 660.00	–	–	–	–	–	–	1	8	76	26	38	48	11	19	12	6	–	–	–	3	–
Registered industrial nurses	97	40.0	608.50	603.50	563.00 – 655.50	–	–	–	–	–	–	3	11	9	25	19	11	8	8	1	2	–	–	–	–	–
Manufacturing	68	40.0	600.50	595.00	531.00 – 643.50	–	–	–	–	–	–	3	8	8	17	14	6	5	5	1	1	–	–	–	–	–

[*] Workers were distributed as follows: 18 at $1,200 to $1,280; 19 at $1,280 to $1,360; 28 at $1,360 to $1,440; 18 at $1,440 to $1,520; and 16 at $1,520 and over.

Also see footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, in Houston, TX, April 1989

Sex,[4] occupation, and industry division	Number of workers	Average (mean[5])	
		Weekly hours[1] (standard)	Weekly earnings (in dollars)[2]
Office occupations - men			
Accounting clerks:			
Accounting clerks I:			
Nonmanufacturing:			
Transportation and utilities	65	40.0	296.50
Accounting clerks II	303	40.0	355.00
Nonmanufacturing	250	40.0	348.00
Transportation and utilities	56	40.0	414.00
File clerks	60	39.0	344.00
Office occupations - women			
Secretaries	5,513	39.5	457.50
Manufacturing	1,325	40.0	479.00
Nonmanufacturing	4,188	39.5	451.00
Secretaries I:			
Manufacturing	69	40.0	356.00
Secretaries II	1,253	40.0	420.00
Manufacturing	437	40.0	438.00
Nonmanufacturing	816	40.0	410.00
Transportation and utilities	107	40.0	445.50
Secretaries III	2,577	39.5	461.50
Manufacturing	495	40.0	489.50
Nonmanufacturing	2,082	39.5	455.00
Transportation and utilities	523	40.0	458.00
Secretaries IV	861	39.5	528.00
Manufacturing	257	39.5	533.00
Nonmanufacturing	604	39.5	525.50
Transportation and utilities	74	40.0	588.50
Secretaries V	207	39.0	616.50
Manufacturing	67	38.5	585.50
Nonmanufacturing	140	39.5	631.00
Typists:			
Typists II	174	38.5	332.00
Nonmanufacturing	174	38.5	332.00
Word processors	1,045	40.0	400.00
Nonmanufacturing	609	40.0	366.50
Word processors I	617	40.0	357.50
Word processors II	428	40.0	460.50
Nonmanufacturing	262	40.0	417.50
Key entry operators	1,007	40.0	326.00
Manufacturing	144	40.0	323.00
Nonmanufacturing	863	40.0	326.50
Transportation and utilities	86	40.0	372.50
Key entry operators I	665	40.0	317.50
Manufacturing	110	40.0	302.00
Nonmanufacturing	555	40.0	320.50
Transportation and utilities	59	40.0	340.50
Key entry operators II	342	40.0	342.50
Nonmanufacturing	308	40.0	337.50
Transportation and utilities	27	39.5	442.50
Accounting clerks	6,247	40.0	356.50
Manufacturing	1,755	40.0	380.00
Nonmanufacturing	4,492	40.0	347.50
Transportation and utilities	1,088	40.0	352.50
Accounting clerks I	722	40.0	306.00
Nonmanufacturing	574	40.0	301.50
Accounting clerks II	3,071	40.0	327.00
Manufacturing	917	40.0	348.50
Nonmanufacturing	2,154	40.0	318.00
Transportation and utilities	348	40.0	367.50
Accounting clerks III	1,928	40.0	402.00
Manufacturing	498	39.5	418.00
Nonmanufacturing	1,430	40.0	396.00
Transportation and utilities	219	40.0	389.00
Accounting clerks IV:			
Nonmanufacturing	312	39.5	417.50
Payroll clerks	453	40.0	389.50
Manufacturing	153	40.0	419.50
Nonmanufacturing	300	40.0	374.50
Transportation and utilities	63	40.0	422.50
File clerks	507	40.0	290.50
Nonmanufacturing	402	39.5	271.00
File clerks I	332	40.0	258.50
Nonmanufacturing	295	40.0	254.00
File clerks II	155	39.5	330.00
Nonmanufacturing	101	39.0	309.50
Order clerks	301	40.0	304.50
Manufacturing	138	40.0	320.50
Nonmanufacturing	163	40.0	290.50
Order clerks I	219	40.0	293.00
Receptionists	242	40.0	289.50
Nonmanufacturing	204	40.0	293.50
Switchboard operators	633	40.0	278.00
Nonmanufacturing	600	40.0	275.00
Switchboard operator-receptionists	1,195	39.5	281.50
Manufacturing	226	40.0	319.00
Nonmanufacturing	969	39.5	272.50
Transportation and utilities	104	40.0	285.50
Professional and technical occupations - men			
Computer systems analysts:			
Manufacturing	376	40.0	788.00
Computer systems analysts II	499	40.0	824.50
Manufacturing	151	40.0	787.00
Computer systems analysts III:			
Manufacturing	101	40.0	902.00
Computer programmers:			
Manufacturing	203	40.0	642.00
Computer programmers I	94	40.0	448.00
Nonmanufacturing	84	40.0	439.50
Computer programmers II	324	40.0	547.00
Manufacturing	69	40.0	548.00
Computer programmers III	470	40.0	682.00
Manufacturing	120	40.0	701.50
Computer operators:			
Computer operators I	130	39.5	327.00
Nonmanufacturing	110	39.5	323.50
Computer operators II:			
Manufacturing	55	39.5	398.50
Nonmanufacturing:			
Transportation and utilities	39	40.0	375.00
Computer operators IV:			
Nonmanufacturing	90	40.0	614.50
Drafters	1,447	40.0	597.50
Manufacturing	323	40.0	531.50
Nonmanufacturing	1,124	40.0	616.50
Drafters II	77	40.0	318.50
Drafters III	233	40.0	451.50
Manufacturing	95	40.0	467.00
Nonmanufacturing	138	40.0	440.50
Drafters IV	397	40.0	560.50
Manufacturing	118	40.0	563.50
Nonmanufacturing	279	40.0	559.50
Drafters V	722	40.0	702.50
Manufacturing	78	40.0	638.00
Nonmanufacturing	644	40.0	710.50
Electronics technicians	891	40.0	511.00
Nonmanufacturing	324	40.0	511.00
Transportation and utilities	111	40.0	659.00
Electronics technicians I	258	40.0	388.50

See footnotes at end of tables.

Table A-3. Average weekly earnings of office, professional, and technical workers, by sex, Houston, TX, April 1989—Continued

Sex,[1] occupation, and industry division	Number of workers	Average (mean[2])	
		Weekly hours[3] (standard)	Weekly earnings (in dollars)[4]
Electronics technicians II	459	40.0	532.00
Manufacturing	201	40.0	526.00
Nonmanufacturing	258	40.0	537.00
Transportation and utilities	111	40.0	659.00
Professional and technical occupations - women			
Computer programmers			
Manufacturing	127	39.5	630.00
Nonmanufacturing			
Transportation and utilities	85	40.0	583.00
Computer programmers II			
Nonmanufacturing			
Transportation and utilities	38	40.0	542.00
Computer programmers III			
Manufacturing	73	39.5	670.00
Computer operators			
Computer operators II			
Manufacturing	61	40.0	411.00

See footnotes at end of tables.

Table A-4. Hourly earnings of maintenance, toolroom, and powerplant workers in Houston, TX, April 1989

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[1]			Number of workers receiving straight-time hourly earnings (in dollars) of —																						
		Mean[2]	Median[2]	Middle range[2]	5.00 and under 5.50	5.50 – 6.00	6.00 – 6.50	6.50 – 7.00	7.00 – 7.50	7.50 – 8.00	8.00 – 8.50	8.50 – 9.00	9.00 – 9.50	9.50 – 10.00	10.00 – 10.50	10.50 – 11.00	11.00 – 11.50	11.50 – 12.00	12.00 – 12.50	12.50 – 13.00	13.00 – 13.50	13.50 – 14.00	14.00 – 14.50	14.50 – 15.00	15.00 – 16.00	16.00 – 17.00	17.00 and over
Maintenance carpenters	274	12.80	11.80	11.80–15.11	-	-	-	-	-	-	-	-	-	7	19	28	10	82	16	3	25	7	-	1	34	42	-
Manufacturing	77	15.53	15.83	15.11–16.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	3	-	-	-	1	34	35	-
Nonmanufacturing	197	11.73	11.80	10.87–12.00	-	-	-	-	-	-	-	-	-	7	19	28	10	82	12	-	25	7	-	-	-	7	-
Maintenance electricians	1,392	15.12	15.51	14.26–16.81	-	-	-	-	-	-	-	18	-	27	14	-	13	9	35	79	93	43	83	109	333	496	40
Manufacturing	942	14.81	15.02	13.61–15.82	-	-	-	-	-	-	-	-	-	9	8	-	13	9	35	55	79	43	80	109	328	137	37
Maintenance painters	123	13.06	14.33	10.34–16.03	-	-	-	-	-	-	13	6	10	-	4	-	19	1	-	5	1	-	3	-	30	31	-
Manufacturing	65	15.65	15.83	15.71–16.03	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	2	1	-	-	-	30	31	-
Nonmanufacturing	58	10.15	10.34	8.84–11.20	-	-	-	-	-	-	12	6	10	-	4	-	19	1	-	3	-	-	3	-	-	-	-
Maintenance machinists	537	15.10	15.16	15.11–15.71	-	-	-	-	-	-	-	-	-	-	-	4	13	-	4	6	-	-	64	20	387	32	7
Manufacturing	531	15.13	15.16	15.11–15.71	-	-	-	-	-	-	-	-	-	-	-	4	13	-	4	-	-	-	64	20	387	32	7
Maintenance mechanics (machinery)	2,172	14.24	14.52	12.92–16.06	-	-	-	-	-	-	-	-	37	181	102	16	17	60	58	73	138	125	182	107	488	584	4
Manufacturing	1,611	13.67	14.28	12.34–15.51	-	-	-	-	-	-	-	-	9	181	84	10	17	57	55	72	124	125	172	107	458	140	-
Maintenance pipefitters	930	15.05	15.16	15.11–15.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	150	-	-	-	1	581	169	-
Manufacturing	780	15.51	15.27	15.16–15.83	-	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	-	-	-	1	581	169	-
Motor vehicle mechanics	1,424	12.17	11.75	10.00–13.43	-	-	-	-	-	-	-	29	24	261	153	95	86	94	119	146	79	59	5	-	75	190	9
Manufacturing	222	11.48	10.53	10.14–12.64	-	-	-	-	-	-	-	6	-	2	89	28	26	9	2	9	29	-	-	-	16	3	3
Nonmanufacturing	1,202	12.30	12.16	9.75–13.50	-	-	-	-	-	-	-	23	24	259	64	67	60	85	117	137	50	59	5	-	59	187	6
Transportation and utilities	620	12.65	11.98	9.75–16.35	-	-	-	-	-	-	-	5	10	217	35	20	4	25	17	39	20	5	5	-	25	187	5
General maintenance workers	1,829	7.61	7.40	6.36– 8.56	56	141	285	236	219	216	185	165	117	57	13	81	6	16	20	13	2	-	1	-	-	-	-
Manufacturing	117	9.80	10.57	7.40–10.96	-	-	11	-	21	2	-	2	-	-	5	56	-	-	20	-	-	-	-	-	-	-	-
Nonmanufacturing	1,712	7.48	7.08	6.30– 8.48	56	141	274	236	198	214	185	163	117	57	8	25	6	16	-	13	2	-	1	-	-	-	-
Maintenance trades helpers	213	9.35	10.16	6.00–11.23	7	28	35	-	26	1	7	-	1	1	21	1	36	3	-	-	-	1	38	7	-	-	-
Manufacturing	67	12.88	14.00	10.45–14.08	-	-	-	-	-	1	-	-	-	1	19	1	-	-	-	-	-	-	38	7	-	-	-
Machine-tool operators (toolroom)	57	12.36	11.50	10.50–13.76	-	-	-	-	-	-	-	-	-	-	-	20	8	1	-	2	4	10	-	2	10	-	-
Manufacturing	57	12.36	11.50	10.50–13.76	-	-	-	-	-	-	-	-	-	-	-	20	8	1	-	2	4	10	-	2	10	-	-
Tool and die makers	172	12.96	12.36	12.36–12.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98	36	-	-	5	14	18	1	-
Manufacturing	172	12.96	12.36	12.36–12.64	-	-	-	-	-	-	-	-	-	-	-	-	-	-	98	36	-	-	5	14	18	1	-
Stationary engineers	630	13.44	13.88	11.51–14.97	-	-	-	3	-	-	-	1	-	7	59	24	30	45	54	27	35	52	60	88	96	31	18
Manufacturing	191	14.45	14.97	12.26–15.72	-	-	-	-	-	-	-	-	-	-	-	-	3	38	11	3	1	4	-	47	56	20	8
Nonmanufacturing	439	13.00	13.12	11.44–14.26	-	-	-	3	-	-	-	1	-	7	59	24	27	7	43	24	34	48	60	41	40	11	10

See footnotes at end of tables.

Table A-5. Hourly earnings of material movement and custodial workers in Houston, TX, April 1989

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[1]			Number of workers receiving straight-time hourly earnings (in dollars) of —																					
		Mean[2]	Median[2]	Middle range[3]	3.35 and under 3.50	3.50 – 4.00	4.00 – 4.50	4.50 – 5.00	5.00 – 5.50	5.50 – 6.00	6.00 – 6.50	6.50 – 7.00	7.00 – 7.50	7.50 – 8.00	8.00 – 8.50	8.50 – 9.00	9.00 – 9.50	9.50 – 10.00	10.00 – 10.50	10.50 – 11.00	11.00 – 12.00	12.00 – 13.00	13.00 – 14.00	14.00 – 15.00	15.00 – 16.00	16.00 – 17.00	17.00 – 18.00
Truckdrivers	6,556	9.75	8.75	7.00–12.76	–	–	46	101	338	249	297	421	518	943	261	236	186	271	278	213	97	825	302	26	861	87	–
Manufacturing	959	8.59	7.91	7.80– 9.38	–	–	–	9	9	30	21	43	62	411	32	11	96	62	83	9	12	15	11	10	33	–	–
Nonmanufacturing	5,597	9.95	9.00	7.00–12.96	–	–	46	92	329	219	276	378	456	532	229	225	90	209	195	204	85	810	291	16	828	87	–
Transportation and utilities	2,282	12.78	13.17	12.61–15.76	–	–	–	–	–	–	3	100	116	240	40	–	–	–	–	–	63	560	242	16	815	87	–
Truckdrivers, light truck	1,585	6.75	6.50	5.50– 7.64	–	–	46	64	124	198	240	248	128	303	75	116	11	4	10	3	2	–	–	–	13	–	–
Manufacturing	197	6.89	6.88	6.00– 7.64	–	–	–	–	9	30	21	42	42	21	21	–	9	–	–	–	2	–	–	–	–	–	–
Nonmanufacturing	1,388	6.73	6.50	5.50– 7.60	–	–	46	64	115	168	219	206	86	282	54	116	2	4	10	3	–	–	–	–	13	–	–
Truckdrivers, medium truck	2,185	11.10	9.75	7.00–15.76	–	–	–	28	214	51	50	101	126	92	133	108	12	189	9	6	63	94	68	12	829	–	–
Manufacturing	60	11.02	9.85	8.10–13.10	–	–	–	–	–	–	–	1	–	12	5	–	12	–	2	6	–	–	8	–	14	–	–
Nonmanufacturing	2,125	11.11	9.75	7.00–15.76	–	–	–	28	214	51	50	100	126	80	128	108	–	189	7	–	63	94	60	12	815	–	–
Truckdrivers, heavy truck	735	8.13	7.91	7.35– 7.91	–	–	–	–	–	–	–	–	198	378	37	2	72	–	–	2	–	46	–	–	–	–	–
Truckdrivers, tractor-trailer	1,686	11.06	10.50	9.50–12.96	–	–	–	–	–	–	4	60	57	170	12	10	91	78	236	198	27	389	234	14	19	87	–
Manufacturing	215	10.79	10.00	9.50–11.64	–	–	–	–	–	–	–	–	–	–	–	9	3	62	81	3	10	15	3	10	19	–	–
Nonmanufacturing	1,471	11.10	10.50	9.35–12.96	–	–	–	–	–	–	4	60	57	170	12	1	88	16	155	195	17	374	231	4	–	87	–
Transportation and utilities	854	12.00	12.76	8.10–13.17	–	–	–	–	–	–	–	–	–	160	12	–	–	–	–	–	–	175	216	4	–	87	–
Shippers	180	8.81	7.88	7.88– 9.62	–	–	–	–	–	–	–	6	22	68	22	2	6	39	–	–	1	–	2	11	1	–	–
Manufacturing	113	8.81	7.88	7.88– 7.96	–	–	–	–	–	–	–	–	21	65	–	–	4	9	–	–	–	–	2	11	1	–	–
Receivers	510	8.64	8.08	6.85– 9.98	–	–	–	14	34	13	46	27	87	31	43	53	6	32	29	24	8	15	9	6	1	30	2
Manufacturing	122	11.63	10.89	8.80–16.72	–	–	–	–	–	–	1	1	–	20	–	31	1	–	–	17	8	3	1	6	1	30	2
Nonmanufacturing	388	7.70	7.00	6.25– 8.80	–	–	–	14	34	13	45	26	87	11	43	22	5	32	29	7	–	12	8	–	–	–	–
Shippers and receivers	301	9.55	9.80	8.42–10.17	–	–	–	–	–	2	2	7	5	11	64	13	21	90	26	6	40	14	–	–	–	–	–
Manufacturing	195	9.58	9.50	8.25–11.20	–	–	–	–	–	2	2	4	2	10	57	8	14	14	26	5	39	12	–	–	–	–	–
Warehousemen	832	10.62	11.09	7.96–13.35	–	–	–	–	–	–	120	26	32	31	17	38	35	36	65	14	74	118	138	42	43	3	–
Manufacturing	295	12.17	11.33	10.22–13.62	–	–	–	–	–	–	–	–	–	–	–	4	15	4	65	1	68	28	40	24	43	3	–
Nonmanufacturing	537	9.76	9.38	6.87–12.01	–	–	–	–	–	–	120	26	32	31	17	34	20	32	–	13	6	90	98	18	–	–	–
Transportation and utilities	228	12.74	13.86	12.01–13.88	–	–	–	–	–	–	–	–	6	–	–	5	–	–	–	11	–	90	98	18	–	–	–
Order fillers	1,920	7.20	6.50	5.60– 8.18	–	40	20	19	335	440	104	154	145	176	22	1	1	97	226	4	4	132	–	–	–	–	–
Manufacturing	80	7.76	7.00	6.36– 7.40	–	–	–	–	–	–	22	2	44	–	–	–	–	–	–	–	–	12	–	–	–	–	–
Nonmanufacturing	1,840	7.17	6.25	5.55– 8.40	–	40	20	19	335	440	82	152	101	176	22	1	1	97	226	4	4	120	–	–	–	–	–
Material handling laborers	818	7.58	7.30	6.00– 9.47	–	12	17	86	39	43	81	42	105	26	15	22	209	78	20	12	4	7	–	–	–	–	–
Manufacturing	374	8.77	9.47	7.60– 9.47	–	–	9	–	–	–	2	3	77	23	8	14	198	8	20	4	4	4	–	–	–	–	–
Nonmanufacturing	444	6.57	6.13	5.00– 7.44	–	12	8	86	39	43	79	39	28	3	7	8	11	70	–	8	–	3	–	–	–	–	–
Forklift operators	1,667	9.42	9.66	7.50–11.09	–	–	48	–	32	35	45	76	178	117	96	57	53	217	226	23	208	142	74	–	–	40	–
Manufacturing	673	10.49	11.09	8.25–12.24	–	–	36	–	–	9	9	30	39	7	40	2	8	109	18	16	139	97	74	–	–	40	–
Nonmanufacturing	994	8.69	8.63	7.01–10.00	–	–	12	–	32	26	36	46	139	110	56	55	45	108	208	7	69	45	–	–	–	–	–
Guards	6,346	5.62	5.25	4.75– 6.00	20	708	404	884	1634	786	640	276	205	294	172	48	20	67	55	25	56	5	1	22	–	24	–
Manufacturing	217	9.10	8.30	7.08–10.73	–	–	–	–	–	18	2	29	19	29	18	12	11	13	8	6	26	3	1	22	–	–	–
Nonmanufacturing	6,129	5.50	5.10	4.70– 6.00	20	708	404	884	1634	768	638	247	186	265	154	36	9	54	47	19	30	2	–	–	–	24	–
Guards I	6,253	5.53	5.25	4.70– 6.00	20	708	404	884	1634	786	640	276	205	293	170	40	10	58	53	21	25	3	1	22	–	–	–
Manufacturing	188	9.05	7.98	6.90–11.74	–	–	–	–	–	18	2	29	19	28	16	4	5	6	6	6	23	3	1	22	–	–	–
Nonmanufacturing	6,065	5.42	5.00	4.65– 6.00	20	708	404	884	1634	768	638	247	186	265	154	36	5	52	47	15	2	–	–	–	–	–	–
Guards II	93	12.08	11.80	9.65–16.53	–	–	–	–	–	–	–	–	–	1	2	8	10	9	2	4	31	2	–	–	–	24	–
Janitors, porters, and cleaners	17,196	4.13	3.35	3.35– 4.55	9164	1953	1101	1239	793	1022	819	510	229	201	50	15	28	20	–	1	26	25	–	–	–	–	–
Manufacturing	388	6.35	6.31	5.00– 7.77	–	51	9	–	45	24	77	41	18	63	27	13	17	1	–	1	–	1	–	–	–	–	–
Nonmanufacturing	16,808	4.08	3.35	3.35– 4.50	9164	1902	1092	1239	748	998	742	469	211	138	23	2	11	19	–	–	26	24	–	–	–	–	–
Transportation and utilities	51	9.97	11.23	8.32–11.60	–	–	–	–	–	–	–	5	1	1	8	–	10	–	–	–	26	–	–	–	–	–	–

See footnotes at end of tables.

Table A-6. Average hourly earnings of maintenance, toolroom, powerplant, material movement, and custodial workers, by sex, in Houston, TX, April 1989

Sex,[1] occupation, and industry division	Number of workers	Average (mean[2]) hourly earnings (in dollars)[3]
Maintenance, toolroom, and powerplant occupations - men		
Maintenance carpenters	273	12.79
Manufacturing	76	15.53
Nonmanufacturing	197	11.73
Maintenance electricians		
Manufacturing	922	14.81
Maintenance painters	117	12.92
Manufacturing	59	15.64
Nonmanufacturing	58	10.15
Maintenance mechanics (machinery)		
Manufacturing	1,594	13.67
Motor vehicle mechanics	1,247	11.55
Manufacturing	221	11.46
Nonmanufacturing	1,026	11.57
General maintenance workers	1,825	7.60
Manufacturing	117	9.80
Nonmanufacturing	1,708	7.45
Maintenance trades helpers		
Manufacturing	67	12.88
Machine-tool operators (toolroom)	57	12.36
Manufacturing	57	12.36
Tool and die makers	167	12.89
Manufacturing	167	12.89
Stationary engineers	592	13.50
Manufacturing	176	14.54
Nonmanufacturing	416	13.06
Material movement and custodial occupations - men		
Truckdrivers	5,373	8.88
Manufacturing	946	8.62
Truckdrivers, light truck	1,367	6.74
Manufacturing	188	6.95
Nonmanufacturing	1,179	6.70
Truckdrivers, medium truck		
Manufacturing	60	11.02
Truckdrivers, heavy truck	731	8.13
Truckdrivers, tractor-trailer	1,638	10.98
Manufacturing	215	10.79
Nonmanufacturing	1,423	11.01
Transportation and utilities	612	11.87
Shippers	158	8.69
Manufacturing	100	8.52
Receivers	466	8.75
Manufacturing	121	11.60
Nonmanufacturing	345	7.75
Warehousemen	548	9.88
Manufacturing	257	12.09
Order fillers	1,467	7.31
Manufacturing	80	7.76
Nonmanufacturing	1,387	7.28
Material handling laborers	756	7.70
Manufacturing	372	8.78
Nonmanufacturing	384	6.66
Forklift operators	1,623	9.40
Manufacturing	655	10.48
Nonmanufacturing	968	8.68
Guards	5,558	5.57
Manufacturing	159	9.10
Nonmanufacturing	5,399	5.47
Guards I	5,485	5.48
Manufacturing	149	9.11
Nonmanufacturing	5,336	5.38
Janitors, porters, and cleaners		
Manufacturing	228	6.88
Material movement and custodial occupations - women		
Order fillers	452	6.82
Nonmanufacturing	452	6.82
Guards	767	5.88
Nonmanufacturing	730	5.73
Guards I	761	5.85
Nonmanufacturing	729	5.71
Janitors, porters, and cleaners	8,004	3.87
Manufacturing	147	5.36
Nonmanufacturing	7,857	3.85

See footnotes at end of tables.

Table A-7. Indexes of earnings and percent increases for selected occupational groups, Houston, TX, selected periods

Period[a]	All industries					Manufacturing					Nonmanufacturing			
	Office clerical	Electronic data processing	Industrial nurses	Skilled maintenance	Unskilled plant	Office clerical	Electronic data processing	Industrial nurses	Skilled maintenance	Unskilled plant	Office clerical	Electronic data processing	Industrial nurses	Unskilled plant
Indexes (August 1977 = 100):														
April 1988	208.7	204.8	220.4	186.7	166.4	(*)	(*)	216.9	187.5	179.6	209.4	203.6	(*)	164.3
April 1989	215.0	211.1	229.0	190.2	166.9	(*)	(*)	227.5	191.2	187.1	215.3	208.3	(*)	164.5
Percent increases:														
April 1972 to April 1973	4.9	(*)	3.1	5.1	5.2	4.9	(*)	3.5	4.7	5.3	5.0	(*)	(*)	4.9
April 1973 to April 1974	6.5	(*)	9.2	7.0	4.9	4.9	(*)	9.9	7.2	6.7	7.0	(*)	(*)	4.7
April 1974 to April 1975	11.9	10.6	12.4	13.1	12.5	12.7	(*)	12.2	14.4	12.6	11.6	10.0	(*)	12.5
April 1975 to April 1976	7.8	6.3	8.4	11.5	8.6	8.1	(*)	8.1	11.6	8.8	7.7	5.9	(*)	8.5
April 1976 to August 1977:														
16-month increase	10.0	7.8	13.3	12.3	6.9	11.0	(*)	12.9	11.8	13.6	9.7	7.6	(*)	4.2
Annual rate of increase	7.4	5.8	9.8	9.1	5.1	8.1	(*)	9.5	8.7	10.0	7.2	5.6	(*)	3.1
August 1977 to April 1978:														
8-month increase	6.0	7.9	6.5	6.8	10.8	5.8	(*)	6.7	7.1	8.0	6.0	7.7	(*)	11.7
Annual rate of increase	9.1	12.1	9.9	10.4	•	8.8	(*)	10.2	10.8	•	9.1	11.8	(*)	•
April 1978 to April 1979	8.6	6.6	7.2	8.2	9.5	7.8	(*)	5.8	9.1	8.4	8.8	6.7	(*)	9.9
April 1979 to April 1980	11.3	10.4	13.5	10.1	10.4	9.5	(*)	14.8	10.0	10.0	11.7	10.0	(*)	10.5
April 1980 to May 1981:														
13-month increase	12.1	11.9	11.7	10.4	9.5	11.5	11.3	11.1	10.2	12.1	12.2	12.1	(*)	8.7
Annual rate of increase	11.1	11.0	10.8	9.6	8.7	10.6	10.4	10.2	9.4	11.1	11.2	11.1	(*)	8.0
May 1981 to May 1982	9.9	11.1	9.8	9.3	3.8	10.4	11.6	8.5	10.0	9.0	9.8	11.0	(*)	2.5
May 1982 to May 1983	7.6	7.4	8.8	5.5	4.5	7.9	6.2	9.1	5.7	5.9	7.5	7.8	(*)	4.1
May 1983 to May 1984	4.6	3.9	5.1	3.2	1.4	4.9	5.6	6.2	2.5	3.0	4.6	3.7	(*)	1.1
May 1984 to May 1985	4.7	3.2	5.1	2.8	1.5	(*)	4.3	5.4	2.9	2.6	4.7	3.0	(*)	1.3
May 1985 to April 1986:														
11-month increase	3.9	3.2	3.6	1.2	1.9	(*)	5.9	2.0	.8	1.0	3.9	2.7	(*)	2.1
Annual rate of increase	4.3	3.5	3.9	1.3	2.1	(*)	6.5	2.2	.9	1.1	4.3	2.9	(*)	2.3
April 1986 to April 1987	3.1	2.2	3.8	2.4	-.3	(*)	2.3	4.1	1.5	-.1	3.3	2.2	(*)	-.3
April 1987 to April 1988	1.7	2.8	4.0	1.4	.1	(*)	1.7	3.7	1.9	1.0	1.4	3.2	(*)	.1
April 1988 to April 1989	3.0	3.1	3.9	1.9	.3	(*)	5.9	4.9	2.0	4.2	2.8	2.3	(*)	.1

See footnotes at end of tables.

Table A-8. Pay relationships in establishments with paired office clerical occupations, Houston, TX, April 1989

Occupation for which earnings are compared	Occupation for which average earnings equal 100																							
	Secretaries					Stenographers	Typists		Word processors		Key entry operators		Accounting clerks				Payroll clerks	File clerks		Messengers	Order clerks	Receptionists	Switchboard operators	Switchboard operator-receptionists
	I	II	III	IV	V	I	I	II	I	II	I	II	I	II	III	IV		I	II		I			
Secretaries I	**100**	85	81	67	59	(*)	(*)	(*)	108	93	116	110	(*)	107	98	84	92	149	113	141	(*)	(*)	113	122
Secretaries II	118	**100**	84	72	55	(*)	(*)	(*)	119	95	125	103	131	116	96	92	100	148	129	148	(*)	127	124	112
Secretaries III	124	120	**100**	82	65	138	163	139	139	105	136	115	147	138	114	101	113	178	138	173	113	131	136	142
Secretaries IV	148	140	122	**100**	81	158	178	179	171	126	163	142	181	164	139	126	136	225	164	205	(*)	150	155	141
Secretaries V	171	182	153	124	**100**	(*)	(*)	220	(*)	134	201	175	195	190	161	145	150	270	189	258	(*)	177	192	165
Stenographers I	(*)	(*)	73	63	(*)	**100**	(*)	(*)	(*)	(*)	(*)	(*)	(*)	99	91	79	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Typists I	(*)	(*)	61	56	(*)	(*)	**100**	(*)	(*)	74	95	(*)	(*)	83	79	70	62	(*)	(*)	(*)	(*)	87	(*)	(*)
Typists II	(*)	(*)	72	56	45	(*)	(*)	**100**	(*)	(*)	(*)	(*)	(*)	86	83	(*)	88	(*)	(*)	(*)	(*)	(*)	91	(*)
Word processors I	93	84	72	58	(*)	(*)	(*)	(*)	**100**	76	108	93	(*)	98	76	74	(*)	(*)	(*)	139	(*)	(*)	104	106
Word processors II	108	106	96	79	75	(*)	134	(*)	132	**100**	126	121	(*)	128	100	89	108	180	(*)	174	(*)	141	134	124
Key entry operators I	86	80	73	61	50	(*)	105	(*)	93	80	**100**	82	100	98	81	70	82	129	109	120	(*)	102	103	113
Key entry operators II	91	97	87	71	57	(*)	(*)	(*)	108	83	122	**100**	(*)	111	89	80	90	135	114	145	(*)	112	113	114
Accounting clerks I	(*)	76	68	55	51	(*)	(*)	(*)	(*)	(*)	100	(*)	**100**	88	72	(*)	87	115	(*)	123	91	(*)	95	101
Accounting clerks II	93	86	72	61	53	101	120	117	102	78	102	90	114	**100**	82	75	85	133	114	136	110	110	106	113
Accounting clerks III	102	105	88	72	62	110	126	121	132	100	123	112	139	122	**100**	87	98	168	138	157	119	126	126	126
Accounting clerks IV	120	109	99	79	69	127	142	(*)	135	113	143	125	(*)	133	116	**100**	114	161	119	162	(*)	145	136	134
Payroll clerks	108	100	89	74	66	(*)	161	113	(*)	93	122	111	115	118	102	86	**100**	167	134	148	105	135	133	117
File clerks I	67	68	56	44	37	(*)	(*)	(*)	(*)	55	77	74	87	75	60	62	60	**100**	81	106	(*)	89	79	83
File clerks II	88	78	72	61	53	(*)	(*)	(*)	(*)	(*)	92	88	(*)	88	72	84	74	124	**100**	124	(*)	97	89	(*)
Messengers	71	68	58	49	39	(*)	(*)	(*)	72	58	83	69	81	74	64	62	67	95	81	**100**	(*)	82	81	75
Order clerks I	(*)	(*)	88	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	110	91	84	(*)	96	(*)	(*)	(*)	**100**	(*)	(*)	112
Receptionists	(*)	79	76	67	57	(*)	115	(*)	(*)	71	98	89	(*)	91	80	69	74	112	103	122	(*)	**100**	100	(*)
Switchboard operators	89	81	74	64	52	(*)	(*)	110	96	75	97	88	106	95	79	73	75	126	112	123	(*)	100	**100**	(*)
Switchboard operator-receptionists	82	89	71	71	60	(*)	(*)	(*)	94	80	89	87	99	89	80	75	85	120	(*)	133	83	(*)	(*)	**100**

NOTE: This matrix table shows the average (mean) relationship of earnings in establishments between any two occupations compared. Earnings for an occupation in the table stub are expressed as a percent of the earnings for an occupation in the column heading at the point where the data lines for the two intersect. For example, reading across the Secretaries II row, the 118 in the Secretaries I column indicates that Secretaries II average 118 percent of (or 18 percent more than) the earnings of Secretaries I.

See appendix A for method of computation.

Also see footnotes at end of tables.

Table A-9. Pay relationships in establishments with paired professional and technical occupations, Houston, TX, April 1989

Occupation for which earnings are compared	Occupation for which average earnings equal 100																			Registered industrial nurses
	Computer systems analysts				Computer programmers				Computer operators				Drafters				Electronics technicians			
	I	II	III	IV	I	II	III	IV	I	II	III	IV	II	III	IV	V	I	II	III	
Computer systems analysts I	**100**	81	69	57	130	117	(*)	(*)	166	151	124	(*)	(*)	136	105	91	(*)	(*)	96	105
Computer systems analysts II	124	**100**	83	72	158	137	117	92	208	185	158	124	(*)	165	135	116	(*)	151	113	126
Computer systems analysts III	145	120	**100**	86	185	158	138	111	250	222	186	152	(*)	194	158	142	(*)	177	136	146
Computer systems analysts IV	177	140	116	**100**	(*)	179	153	(*)	293	(*)	212	(*)	(*)	218	174	176	(*)	196	(*)	163
Computer programmers I	77	63	54	(*)	**100**	85	71	57	141	113	100	(*)	(*)	114	95	84	(*)	(*)	72	86
Computer programmers II	86	73	63	56	118	**100**	85	68	160	138	115	89	(*)	125	105	88	145	110	85	95
Computer programmers III	(*)	86	72	65	141	118	**100**	83	193	167	148	(*)	(*)	146	128	105	163	127	(*)	113
Computer programmers IV	(*)	108	90	(*)	174	147	121	**100**	249	211	173	(*)	(*)	181	165	131	(*)	(*)	(*)	(*)
Computer operators I	60	48	40	34	71	62	52	40	**100**	86	70	54	(*)	74	65	53	74	59	(*)	60
Computer operators II	66	54	45	(*)	88	72	60	47	117	**100**	80	63	(*)	81	72	60	( )	(*)	56	65
Computer operators III	80	63	54	47	100	87	68	58	143	125	**100**	81	(*)	105	89	75	(*)	(*)	68	81
Computer operators IV	(*)	81	66	(*)	(*)	112	(*)	(*)	186	159	124	**100**	(*)	(*)	104	(*)	(*)	(*)	(*)	100
Drafters II	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	**100**	74	58	40	(*)	(*)	(*)	(*)
Drafters III	74	61	52	46	88	80	68	55	135	124	96	(*)	135	**100**	78	60	(*)	86	73	78
Drafters IV	95	74	63	58	106	95	78	61	154	139	112	96	172	129	**100**	78	(*)	(*)	86	98
Drafters V	110	86	71	57	119	114	95	76	188	167	134	(*)	252	165	128	**100**	(*)	120	97	113
Electronics technicians I	(*)	(*)	(*)	(*)	(*)	69	61	(*)	135	(*)	(*)	(*)	(*)	(*)	(*)	(*)	**100**	75	60	(*)
Electronics technicians II	(*)	66	57	51	(*)	91	79	(*)	168	(*)	(*)	(*)	(*)	116	(*)	83	133	**100**	79	(*)
Electronics technicians III	104	89	73	(*)	139	117	(*)	(*)	(*)	177	146	(*)	(*)	137	116	104	168	126	**100**	120
Registered industrial nurses	95	80	68	61	116	105	88	(*)	168	154	123	100	(*)	128	102	88	(*)	(*)	84	**100**

See table A-8 for description of these pay relationships and appendix A for method of computation.

Also see footnotes at end of tables.

Table A-10. Pay relationships in establishments with paired maintenance, toolroom, and powerplant occupations, Houston, TX, April 1989

Occupation for which earnings are compared	Occupation for which average earnings equal 100											
	Carpenters	Electricians	Painters	Machinists	Maintenance mechanics (machinery)	Pipefitters	Motor vehicle mechanics	Maintenance workers (general)	Trades helpers	Machine-tool operators (toolroom)	Tool and die makers	Stationary engineers
Maintenance carpenters	**100**	98	103	97	100	98	100	(*)	(*)	(*)	(*)	100
Maintenance electricians	102	**100**	103	100	101	100	103	(*)	(*)	104	100	102
Maintenance painters	97	97	**100**	95	101	98	100	(*)	(*)	(*)	(*)	84
Maintenance machinists	103	100	105	**100**	102	100	100	(*)	(*)	(*)	(*)	103
Maintenance mechanics (machinery)	100	99	99	98	**100**	99	101	(*)	(*)	107	96	96
Maintenance pipefitters	102	100	102	100	101	**100**	100	(*)	117	(*)	(*)	101
Motor vehicle mechanics	100	97	100	100	99	100	**100**	120	(*)	(*)	(*)	94
General maintenance workers	(*)	(*)	(*)	(*)	(*)	(*)	84	**100**	(*)	(*)	(*)	(*)
Maintenance trades helpers	(*)	(*)	(*)	(*)	(*)	86	(*)	(*)	**100**	(*)	(*)	76
Machine-tool operators (toolroom)	(*)	96	(*)	(*)	93	(*)	(*)	(*)	(*)	**100**	89	89
Tool and die makers	(*)	100	(*)	(*)	105	(*)	(*)	(*)	(*)	113	**100**	106
Stationary engineers	100	98	120	97	104	99	106	(*)	131	113	94	**100**

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Table A-11. Pay relationships in establishments with paired material movement and custodial occupations, Houston, TX, April 1989

Occupation for which earnings are compared	Occupation for which average earnings equal 100													
	Truckdrivers				Shippers	Receivers	Shippers and receivers	Warehouse-men	Order fillers	Material handling laborers	Forklift operators	Guards		Janitors, porters, and cleaners
	Light truck	Medium truck	Heavy truck	Tractor-trailer								I	II	
Truckdrivers, light truck	**100**	(*)	(*)	69	(*)	(*)	(*)	98	99	(*)	75	101	(*)	143
Truckdrivers, medium truck	(*)	**100**	(*)	96	(*)	104	(*)	(*)	102	(*)	(*)	(*)	(*)	(*)
Truckdrivers, heavy truck	(*)	(*)	**100**	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)
Truckdrivers, tractor-trailer	145	104	(*)	**100**	(*)	100	(*)	121	115	123	109	145	(*)	134
Shippers	(*)	(*)	(*)	(*)	**100**	98	(*)	(*)	126	(*)	101	(*)	(*)	(*)
Receivers	(*)	96	(*)	100	102	**100**	(*)	(*)	128	113	112	134	(*)	120
Shippers and receivers	(*)	(*)	(*)	(*)	(*)	(*)	**100**	89	(*)	115	100	123	(*)	117
Warehousemen	102	(*)	(*)	82	(*)	(*)	113	**100**	(*)	(*)	95	(*)	(*)	127
Order fillers	101	98	(*)	87	79	78	(*)	(*)	**100**	(*)	92	98	(*)	110
Material handling laborers	(*)	(*)	(*)	81	(*)	88	87	(*)	(*)	**100**	87	96	(*)	112
Forklift operators	133	(*)	(*)	92	99	89	100	106	109	115	**100**	116	(*)	127
Guards I	99	(*)	(*)	69	(*)	74	82	(*)	102	104	86	**100**	(*)	123
Guards II	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	**100**	137
Janitors, porters, and cleaners	70	(*)	(*)	75	(*)	83	86	79	91	89	79	81	73	**100**

See table A-8 for description of these pay relationships and appendix A for method of computation.
Also see footnotes at end of tables.

Table A-12. Weekly earnings of office workers in establishments employing 500 workers or more in Houston, TX, April 1989

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																					
			Mean[3]	Median[3]	Middle range[4]	160 and under 180	180 – 200	200 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 420	420 – 440	440 – 480	480 – 520	520 – 560	560 – 600	600 – 640	640 – 680	680 and over
Secretarial and keyboarding occupations																											
Secretaries	4,218	39.5	460.50	444.00	388.00– 520.50	–	–	1	–	–	35	53	90	158	246	282	358	436	390	600	511	400	259	173	99	127
Manufacturing	776	39.5	488.50	474.50	415.50– 560.50	–	–	1	–	–	1	5	6	18	22	34	57	71	93	86	114	74	77	58	34	25
Nonmanufacturing	3,442	39.5	454.00	438.50	384.00– 510.00	–	–	–	–	–	34	48	84	140	224	248	301	365	297	514	397	326	182	115	65	102
Transportation and utilities	921	40.0	468.50	456.00	399.50– 532.00	–	–	–	–	–	8	13	16	20	45	51	78	75	89	150	114	125	60	28	19	30
Secretaries I	483	40.0	382.00	380.00	335.00– 419.50	–	–	1	–	–	28	28	39	28	55	63	69	52	37	43	15	17	5	2	1	–
Manufacturing	58	40.0	357.00	368.00	334.50– 374.50	–	–	1	–	–	1	4	4	7	9	18	7	5	–	1	1	–	–	–	–	–
Nonmanufacturing	425	40.0	385.50	383.00	336.00– 425.00	–	–	–	–	–	27	24	35	21	46	45	62	47	37	42	14	17	5	2	1	–
Transportation and utilities	218	40.0	405.00	398.00	356.00– 440.00	–	–	–	–	–	8	9	12	8	22	26	30	16	32	22	8	17	5	2	1	–
Secretaries II	881	40.0	406.50	404.00	358.00– 437.50	–	–	–	–	–	3	18	42	79	81	85	111	136	124	86	56	30	19	9	1	1
Manufacturing	182	40.0	422.00	416.00	392.50– 438.50	–	–	–	–	–	–	1	2	9	11	8	30	37	43	19	5	8	9	–	–	–
Nonmanufacturing	699	40.0	402.50	393.50	354.50– 437.50	–	–	–	–	–	3	17	40	70	70	77	81	99	81	67	51	22	10	9	1	1
Transportation and utilities	74	40.0	473.50	505.50	396.00– 529.00	–	–	–	–	–	–	–	–	–	6	3	10	3	2	10	20	14	2	4	–	–
Secretaries III	1,952	39.5	462.50	456.00	403.50– 516.50	–	–	–	–	–	4	7	9	50	98	120	159	198	202	352	298	209	123	78	32	13
Manufacturing	304	40.0	432.00	482.50	430.00– 545.50	–	–	–	–	–	–	–	–	2	2	7	20	27	41	46	66	24	32	17	17	3
Nonmanufacturing	1,648	39.5	457.00	450.00	399.50– 510.00	–	–	–	–	–	4	7	9	48	96	113	139	171	161	306	232	185	91	61	15	10
Transportation and utilities	518	40.0	462.50	460.00	411.50– 518.50	–	–	–	–	–	–	4	4	11	17	22	37	53	53	115	81	77	33	9	2	–
Secretaries IV	695	39.5	528.50	518.00	459.00– 590.50	–	–	–	–	–	–	–	–	1	12	14	19	49	26	112	119	103	89	59	37	55
Manufacturing	164	39.5	556.00	546.00	502.00– 607.50	–	–	–	–	–	–	–	–	–	–	1	–	2	9	17	30	34	25	23	9	14
Nonmanufacturing	531	39.0	520.00	501.00	449.00– 584.00	–	–	–	–	–	–	–	–	1	12	13	19	47	17	95	89	69	64	36	28	41
Transportation and utilities	59	40.0	573.00	588.00	536.50– 626.00	–	–	–	–	–	–	–	–	1	–	–	1	2	1	1	5	12	13	11	10	2
Secretaries V	207	39.0	629.00	610.50	539.00– 704.00	–	–	–	–	–	–	–	–	–	–	–	–	1	1	7	23	41	23	25	28	* 58
Manufacturing	68	38.5	600.50	596.50	530.00– 639.50	–	–	–	–	–	–	–	–	–	–	–	–	–	–	3	12	8	11	18	8	8
Nonmanufacturing	139	39.5	642.50	640.50	542.50– 734.50	–	–	–	–	–	–	–	–	–	–	–	–	1	1	4	11	33	12	7	20	50
Transportation and utilities	52	40.0	670.50	694.00	583.50– 743.50	–	–	–	–	–	–	–	–	–	–	–	–	1	1	2	–	5	7	2	6	28
Stenographers	87	40.0	407.50	378.00	340.00– 504.50	–	–	–	–	2	4	3	4	8	11	14	4	6	2	2	16	11	–	–	–	–
Nonmanufacturing	81	40.0	402.00	375.00	339.50– 504.50	–	–	–	–	2	4	3	4	8	11	14	4	6	–	2	12	11	–	–	–	–
Transportation and utilities	51	40.0	432.00	416.00	339.50– 516.00	–	–	–	–	1	2	1	3	6	4	5	–	5	–	1	12	11	–	–	–	–
Stenographers I	61	40.0	414.50	411.50	336.50– 516.00	–	–	–	–	2	4	3	4	6	5	6	–	6	–	2	12	11	–	–	–	–
Nonmanufacturing	61	40.0	414.50	411.50	336.50– 516.00	–	–	–	–	2	4	3	4	6	5	6	–	6	–	2	12	11	–	–	–	–
Transportation and utilities	51	40.0	432.00	416.00	339.50– 516.00	–	–	–	–	1	2	1	3	6	4	5	–	5	–	1	12	11	–	–	–	–
Typists	99	40.0	313.50	312.50	277.00– 348.00	–	–	2	1	5	17	17	14	14	11	9	4	5	–	–	–	–	–	–	–	–
Nonmanufacturing	95	40.0	317.50	314.50	280.00– 348.50	–	–	–	–	4	17	17	14	14	11	9	4	5	–	–	–	–	–	–	–	–
Word processors: Nonmanufacturing	123	40.0	388.50	365.00	310.00– 441.00	–	–	–	–	–	–	27	8	12	10	6	8	11	10	12	9	3	3	2	2	–
Word processors I: Nonmanufacturing	51	40.0	337.50	307.00	288.50– 392.50	–	–	–	–	–	–	24	3	8	1	1	3	3	3	5	–	–	–	–	–	–
Word processors II	229	40.0	502.50	501.00	420.00– 572.50	–	–	–	–	–	–	3	5	5	11	10	11	12	16	30	33	27	16	19	19	12
Nonmanufacturing	72	40.0	425.00	404.00	353.00– 487.50	–	–	–	–	–	–	3	5	4	9	5	5	8	7	7	9	3	3	2	2	–
Key entry operators	452	40.0	343.50	333.00	288.50– 382.50	–	–	4	16	19	44	47	46	68	45	45	29	24	22	14	23	5	1	–	–	–
Manufacturing	68	39.5	357.00	362.50	313.00– 395.50	–	–	–	–	–	10	4	5	8	6	13	7	5	4	2	3	1	–	–	–	–
Nonmanufacturing	384	40.0	341.00	330.00	288.50– 379.50	–	–	4	16	19	34	43	41	60	39	32	22	19	18	12	20	4	1	–	–	–
Transportation and utilities	81	40.0	368.50	356.00	320.00– 406.00	–	–	–	–	1	2	5	5	22	8	11	3	9	1	6	8	–	–	–	–	–

See footnotes at end of tables.

Table A-12. Weekly earnings of office workers in establishments employing 500 workers or more in Houston, TX, April 1989 —Continued

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																			
			Mean[2]	Median[2]	Middle range[2]	160 and under 180	180 – 200	200 – 220	220 – 240	240 – 260	260 – 280	280 – 300	300 – 320	320 – 340	340 – 360	360 – 380	380 – 400	400 – 420	420 – 440	440 – 480	480 – 520	520 – 560	560 – 600	600 – 640	640 – 680	680 and over
Key entry operators I	266	40.0	321.00	314.50	272.00– 363.00	–	–	4	16	19	39	31	27	44	15	17	[3] 14	18	17	3	2	–	–	–	–	–
Nonmanufacturing	224	40.0	319.00	312.00	271.50– 360.00	–	–	4	16	19	29	27	22	38	12	13	10	14	16	3	1	–	–	–	–	–
Transportation and utilities	57	40.0	337.50	329.00	320.00– 363.00	–	–	–	–	1	2	5	5	22	6	8	2	5	–	1	–	–	–	–	–	–
Key entry operators II	186	40.0	375.00	359.00	324.00– 408.50	–	–	–	–	–	5	16	19	24	30	28	15	6	5	11	21	5	1	–	–	–
Nonmanufacturing	160	39.5	371.50	355.00	318.50– 403.00	–	–	–	–	–	5	16	19	22	27	19	12	5	2	9	19	4	1	–	–	–
Other clerical occupations																										
Accounting clerks	3,733	40.0	380.50	368.00	300.00– 443.00	–	–	10	53	154	409	288	273	264	282	310	285	240	160	415	213	146	135	36	23	26
Manufacturing	1,157	39.5	421.50	393.50	359.00– 461.50	–	–	–	–	–	9	27	46	85	131	165	153	101	80	113	78	46	47	27	23	26
Nonmanufacturing	2,576	40.0	362.00	340.00	281.50– 435.00	–	–	10	53	154	400	261	227	179	151	145	132	148	80	302	135	102	88	9	–	–
Transportation and utilities	1,051	40.0	355.50	326.00	274.50– 443.00	–	–	–	9	19	280	115	90	72	26	61	31	44	27	174	43	21	38	1	–	–
Accounting clerks II	1,376	39.5	350.00	339.50	289.00– 398.00	–	–	8	30	111	112	180	147	105	107	145	96	83	46	136	23	7	37	1	2	–
Nonmanufacturing	950	40.0	335.50	305.50	276.00– 385.00	–	–	8	30	111	108	171	131	53	36	52	32	49	22	102	8	3	34	–	–	–
Transportation and utilities	304	40.0	372.00	335.00	292.00– 455.50	–	–	–	–	10	13	66	51	22	12	24	6	12	1	53	–	–	34	–	–	–
Accounting clerks III	1,202	40.0	417.50	396.00	346.00– 487.50	–	–	–	4	18	25	50	86	89	120	104	116	93	74	99	113	98	69	20	12	12
Nonmanufacturing	804	40.0	406.50	382.00	331.00– 483.50	–	–	–	4	18	21	35	67	85	97	60	58	48	35	58	84	78	48	8	–	–
Transportation and utilities	156	40.0	387.50	382.00	338.00– 434.00	–	–	–	–	–	–	–	29	12	10	24	19	15	18	17	8	4	–	–	–	–
Accounting clerks IV:																										
Nonmanufacturing	295	40.0	430.50	429.50	392.50– 474.50	–	–	–	–	–	–	4	13	13	10	16	36	44	23	67	43	19	6	1	–	–
Transportation and utilities	127	40.0	459.00	473.00	417.50– 502.00	–	–	–	–	–	–	–	–	13	3	1	6	10	8	29	35	17	4	1	–	–
Payroll clerks	314	40.0	381.00	359.50	300.00– 431.00	–	–	–	3	23	17	27	33	18	36	34	15	20	15	22	18	11	8	5	6	3
Manufacturing	105	40.0	463.50	446.00	377.50– 525.00	–	–	–	–	1	–	1	4	4	7	11	4	11	9	9	14	8	8	5	6	3
Nonmanufacturing	209	40.0	339.50	329.00	299.50– 374.50	–	–	–	3	22	17	26	29	14	29	23	11	9	6	13	4	3	–	–	–	–
Transportation and utilities	33	40.0	403.50	415.50	329.00– 450.00	–	–	–	–	–	–	5	1	5	1	–	3	3	2	8	2	3	–	–	–	–
File clerks	232	40.0	342.00	318.50	273.00– 373.00	–	–	–	11	25	31	29	21	23	18	20	11	6	3	8	12	5	3	2	1	3
Nonmanufacturing	124	39.5	312.50	288.50	261.50– 348.50	–	–	–	11	17	23	19	9	13	9	6	5	3	–	–	4	3	2	–	–	–
File clerks I	107	40.0	287.50	285.00	257.50– 315.00	–	–	–	11	18	22	18	13	12	7	6	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	79	40.0	287.50	281.50	257.50– 319.50	–	–	–	11	11	17	12	9	7	6	6	–	–	–	–	–	–	–	–	–	–
File clerks II	102	39.5	356.50	351.00	293.50– 396.00	–	–	–	–	7	9	11	8	11	11	14	8	6	2	5	7	1	2	–	–	–
Messengers	255	39.5	259.00	248.00	233.00– 277.00	–	4	10	84	58	46	19	20	4	3	4	2	–	–	–	1	–	–	–	–	–
Nonmanufacturing	223	39.5	257.50	248.00	232.00– 276.00	–	4	7	79	48	42	16	19	3	–	3	1	–	–	–	1	–	–	–	–	–
Transportation and utilities	27	40.0	285.50	276.50	269.50– 281.50	–	–	–	–	–	17	6	3	–	–	–	–	–	–	–	1	–	–	–	–	–
Receptionists	121	40.0	308.50	294.50	281.50– 326.50	–	–	1	6	4	18	43	15	10	3	9	8	1	1	1	–	–	1	–	–	–
Nonmanufacturing	106	40.0	300.50	294.00	277.00– 306.50	–	–	–	6	4	18	41	14	8	1	9	3	1	–	1	–	–	–	–	–	–
Switchboard operators	292	40.0	278.00	250.00	218.50– 333.50	8	50	20	7	70	21	10	23	14	34	8	5	5	2	13	1	1	–	–	–	–
Nonmanufacturing	259	40.0	270.50	250.00	215.50– 321.00	8	50	20	6	70	18	9	12	11	27	7	3	5	1	10	1	1	–	–	–	–
Switchboard operator-receptionists	200	39.0	268.00	247.50	215.50– 315.00	–	35	20	29	19	21	16	18	12	9	9	4	4	2	–	–	2	–	–	–	–
Manufacturing	50	40.0	342.50	346.00	311.50– 369.00	–	–	1	–	4	4	1	7	6	7	9	4	3	2	–	–	2	–	–	–	–

[3] Workers were distributed as follows: 9 at $680 to $720; 22 at $720 to $760; 12 at $760 to $800; 5 at $800 to $840; and 10 at $840 and over.

Also see footnotes at end of tables.

Table A-13. Weekly earnings of professional and technical workers in establishments employing 500 workers or more in Houston, TX, April 1989

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																			
			Mean[3]	Median[3]	Middle range[3]	240 and under 280	280 – 320	320 – 360	360 – 400	400 – 440	440 – 480	480 – 520	520 – 560	560 – 600	600 – 640	640 – 680	680 – 720	720 – 760	760 – 800	800 – 880	880 – 960	960 – 1040	1040 – 1120	1120 – 1200	1200 – 1280	1280 and over
Computer systems analysts	2,104	40.0	861.50	835.00	703.00– 967.50	–	–	–	–	–	7	23	51	64	119	182	145	134	165	365	306	171	113	100	63	96
Manufacturing	622	40.0	768.50	756.00	671.50– 844.50	–	–	–	–	–	7	3	9	5	60	93	77	60	66	131	62	33	8	7	–	1
Nonmanufacturing	1,482	40.0	900.50	878.00	741.00–1031.00	–	–	–	–	–	–	20	42	59	59	89	68	74	99	234	244	138	105	93	63	95
Computer systems analysts I	467	40.0	651.50	649.50	602.50– 694.50	–	–	–	–	–	7	16	44	48	91	116	67	36	20	13	9	–	–	–	–	–
Computer systems analysts II	720	40.0	812.50	820.00	737.00– 893.00	–	–	–	–	–	–	7	7	16	28	48	47	66	106	187	136	54	18	–	–	–
Manufacturing	226	40.0	784.50	783.50	735.50– 830.00	–	–	–	–	–	–	–	–	–	3	15	28	36	47	76	19	2	–	–	–	–
Nonmanufacturing	494	40.0	825.50	845.00	747.00– 921.50	–	–	–	–	–	–	7	7	16	25	33	19	30	59	111	117	52	18	–	–	–
Transportation and utilities	65	40.0	720.00	706.50	648.00– 763.00	–	–	–	–	–	–	–	–	2	12	13	9	10	6	10	2	1	–	–	–	–
Computer systems analysts III	684	40.0	945.00	909.00	824.50–1056.00	–	–	–	–	–	–	–	–	–	–	18	31	32	39	155	132	86	67	64	45	15
Manufacturing	145	40.0	894.50	882.50	834.00– 952.00	–	–	–	–	–	–	–	–	–	–	–	1	5	11	54	43	21	5	5	–	–
Nonmanufacturing	539	40.0	958.50	929.50	822.00–1094.50	–	–	–	–	–	–	–	–	–	–	18	30	27	28	101	89	65	62	59	45	15
Computer systems analysts IV	233	40.0	1187.00	1171.00	1016.00–1363.00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	10	29	31	28	36	18	* 81
Nonmanufacturing	217	40.0	1196.50	1173.00	1030.00–1363.00	–	–	–	–	–	–	–	–	–	–	–	–	–	–	10	29	21	25	34	18	80
Computer programmers	1,468	40.0	656.50	653.00	561.00– 733.50	–	–	–	3	10	49	144	155	160	159	178	175	157	109	93	48	22	6	–	–	–
Manufacturing	252	39.5	615.50	603.50	561.00– 674.50	–	–	–	2	–	14	18	26	60	49	25	25	11	14	3	5	–	–	–	–	–
Nonmanufacturing	1,216	40.0	665.00	665.00	565.50– 743.50	–	–	–	1	10	35	126	129	100	110	153	150	146	95	90	43	22	6	–	–	–
Transportation and utilities	160	40.0	635.00	570.50	519.50– 754.50	–	–	–	–	–	1	39	36	12	10	8	4	13	8	14	13	2	–	–	–	–
Computer programmers I	131	40.0	491.00	490.50	470.50– 517.00	–	–	–	1	10	28	64	28	–	–	–	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	113	40.0	487.50	489.50	462.50– 510.00	–	–	–	1	10	27	56	19	–	–	–	–	–	–	–	–	–	–	–	–	–
Transportation and utilities	31	40.0	494.50	489.50	481.00– 508.00	–	–	–	–	–	1	28	2	–	–	–	–	–	–	–	–	–	–	–	–	–
Computer programmers II	471	40.0	569.50	565.50	524.00– 605.00	–	–	–	2	–	21	76	120	115	65	41	20	11	–	–	–	–	–	–	–	–
Manufacturing	109	40.0	557.00	563.00	525.00– 590.50	–	–	–	2	–	13	10	17	47	13	2	5	–	–	–	–	–	–	–	–	–
Nonmanufacturing	362	40.0	573.00	565.50	524.00– 614.50	–	–	–	–	–	8	66	103	68	52	39	15	11	–	–	–	–	–	–	–	–
Transportation and utilities	61	40.0	547.00	537.50	524.00– 569.50	–	–	–	–	–	–	10	33	12	5	1	–	–	–	–	–	–	–	–	–	–
Computer programmers III	593	40.0	692.00	691.00	638.00– 739.00	–	–	–	–	–	–	4	7	45	94	117	122	99	65	31	9	–	–	–	–	–
Manufacturing	115	39.5	675.00	659.00	613.00– 715.50	–	–	–	–	–	–	–	–	13	36	22	16	10	13	–	5	–	–	–	–	–
Nonmanufacturing	478	40.0	696.00	693.50	646.50– 739.00	–	–	–	–	–	–	4	7	32	58	95	106	89	52	31	4	–	–	–	–	–
Computer programmers IV	273	39.5	809.00	789.00	730.00– 876.50	–	–	–	–	–	–	–	–	–	–	20	33	47	44	62	39	22	6	–	–	–
Nonmanufacturing	263	39.5	811.00	790.00	733.50– 883.00	–	–	–	–	–	–	–	–	–	–	19	29	46	43	59	39	22	6	–	–	–
Computer operators	1,095	39.5	444.00	436.00	350.00– 521.00	35	118	136	150	120	163	98	99	61	56	25	19	12	2	1	–	–	–	–	–	–
Manufacturing	227	40.0	462.50	447.00	377.50– 533.00	8	16	15	34	29	45	17	15	11	12	13	9	3	–	–	–	–	–	–	–	–
Nonmanufacturing	868	39.5	439.00	430.00	343.00– 518.00	27	102	121	116	91	118	81	84	50	44	12	10	9	2	1	–	–	–	–	–	–
Transportation and utilities	140	40.0	434.00	455.00	370.50– 505.00	10	11	11	19	8	35	17	22	2	5	–	–	–	–	–	–	–	–	–	–	–
Computer operators I	175	39.5	339.00	320.00	296.50– 379.00	16	71	25	35	21	4	2	1	–	–	–	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	150	39.5	339.50	321.50	297.50– 379.00	8	66	20	33	20	2	1	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Computer operators II	484	39.5	393.50	382.00	337.50– 452.50	19	44	106	96	64	106	41	3	2	2	1	–	–	–	–	–	–	–	–	–	–
Manufacturing	82	40.0	413.50	401.00	369.50– 454.00	–	10	5	23	15	18	6	–	2	2	1	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	402	39.5	389.50	375.00	336.50– 452.50	19	34	101	73	49	88	35	3	–	–	–	–	–	–	–	–	–	–	–	–	–
Computer operators III	273	40.0	495.00	505.00	443.50– 543.50	–	3	5	19	34	51	47	74	26	10	4	–	–	–	–	–	–	–	–	–	–
Manufacturing	79	40.0	470.00	460.00	414.50– 522.50	–	1	5	9	12	24	6	10	5	6	1	–	–	–	–	–	–	–	–	–	–
Nonmanufacturing	194	40.0	505.00	517.50	461.00– 546.00	–	2	–	10	22	27	41	64	21	4	3	–	–	–	–	–	–	–	–	–	–
Transportation and utilities	44	40.0	518.00	526.00	493.00– 541.50	–	–	–	1	1	4	14	21	1	2	–	–	–	–	–	–	–	–	–	–	–
Computer operators IV	163	40.0	619.50	614.50	576.00– 666.00	–	–	–	–	1	2	8	21	33	44	20	19	12	2	1	–	–	–	–	–	–
Nonmanufacturing	122	40.0	618.00	610.50	580.00– 640.50	–	–	–	–	–	1	4	17	29	40	9	10	9	2	1	–	–	–	–	–	–

See footnotes at end of tables.

Table A-13. Weekly earnings of professional and technical workers in establishments employing 500 workers or more in Houston, TX, April 1989 —Continued

Occupation and industry division	Number of workers	Average weekly hours[1] (standard)	Weekly earnings (in dollars)[2]			Number of workers receiving straight-time weekly earnings (in dollars) of —																			
			Mean[2]	Median[2]	Middle range[2]	240 and under 280	280 - 320	320 - 360	360 - 400	400 - 440	440 - 480	480 - 520	520 - 560	560 - 600	600 - 640	640 - 680	680 - 720	720 - 760	760 - 800	800 - 880	880 - 960	960 - 1040	1040 - 1120	1120 - 1200	1200 - 1280	1280 and over
Drafters	532	40.0	542.00	537.50	463.00- 601.50	-	3	11	27	44	82	71	75	80	51	43	23	10	2	1	5	3	-	1	-	-
Manufacturing	255	40.0	565.00	560.50	504.00- 618.50	-	1	4	12	7	32	28	43	53	24	26	13	3	-	-	5	3	-	1	-	-
Nonmanufacturing	277	40.0	521.00	508.00	453.50- 588.50	-	2	7	15	37	50	43	32	27	27	17	10	7	2	1	-	-	-	-	-	-
Transportation and utilities	64	40.0	530.50	503.00	456.50- 607.50	-	-	1	1	11	11	14	2	6	9	5	2	-	1	1	-	-	-	-	-	-
Drafters III	133	40.0	460.50	460.50	398.00- 511.50	-	2	8	24	21	24	25	14	10	4	1	-	-	-	-	-	-	-	-	-	-
Nonmanufacturing	87	40.0	462.50	458.00	409.50- 512.50	-	2	4	12	18	16	16	10	6	2	1	-	-	-	-	-	-	-	-	-	-
Transportation and utilities	35	40.0	466.50	470.50	439.00- 492.50	-	-	-	1	11	10	11	1	1	-	-	-	-	-	-	-	-	-	-	-	-
Drafters IV	212	40.0	543.00	544.50	466.00- 598.00	-	-	-	2	16	44	28	33	39	18	19	12	1	-	-	-	-	-	-	-	-
Manufacturing	109	40.0	560.00	562.50	508.00- 599.00	-	-	-	-	2	22	13	17	28	6	11	9	1	-	-	-	-	-	-	-	-
Nonmanufacturing	103	40.0	524.50	519.50	459.50- 594.00	-	-	-	2	14	22	15	16	11	12	8	3	-	-	-	-	-	-	-	-	-
Transportation and utilities	25	40.0	598.00	609.50	570.00- 622.50	-	-	-	-	-	1	3	1	5	9	5	1	-	-	-	-	-	-	-	-	-
Drafters V	166	40.0	620.50	600.00	546.00- 659.00	-	-	-	-	-	8	16	28	30	29	23	11	9	2	1	5	3	-	1	-	-
Manufacturing	94	40.0	631.50	593.00	558.50- 646.00	-	-	-	-	-	-	6	22	20	16	15	4	2	-	-	5	3	-	1	-	-
Nonmanufacturing	72	40.0	606.50	600.00	521.50- 668.00	-	-	-	-	-	8	10	6	10	13	8	7	7	2	1	-	-	-	-	-	-
Electronics technicians	714	40.0	532.00	535.50	435.50- 600.50	-	1	-	140	50	67	67	92	78	120	46	12	19	12	6	1	-	-	3	-	-
Manufacturing	558	40.0	528.00	522.50	398.00- 605.00	-	1	-	140	38	33	61	68	74	44	46	12	19	12	6	1	-	-	3	-	-
Electronics technicians II	306	40.0	547.00	554.00	502.50- 600.50	-	-	-	-	13	34	53	66	50	84	4	1	-	-	-	1	-	-	-	-	-
Electronics technicians III	192	40.0	644.00	638.00	573.50- 684.00	-	-	-	-	-	3	12	24	26	34	42	11	19	12	6	-	-	-	3	-	-
Manufacturing	186	40.0	649.00	642.50	581.00- 684.00	-	-	-	-	-	1	8	24	26	34	42	11	19	12	6	-	-	-	3	-	-
Registered industrial nurses	83	40.0	615.50	606.00	570.00- 672.00	-	-	-	-	-	3	9	5	19	19	9	8	8	1	2	-	-	-	-	-	-
Manufacturing	54	40.0	609.50	606.00	561.00- 671.50	-	-	-	-	-	3	6	4	11	14	4	5	5	1	1	-	-	-	-	-	-

[*] Workers were distributed as follows: 19 at $1,280 to $1,360; 28 at $1,360 to $1,440; 18 at $1,440 to $1,520; 14 at $1,520 to $1,600; and 2 at $1,600 to $1,680.

Also see footnotes at end of tables.

Table A-14. Average weekly earnings of office, professional, and technical workers, by sex in establishments employing 500 workers or more in Houston, TX, April 1989

Sex,[4] occupation, and industry division	Number of workers	Average (mean[5])	
		Weekly hours[1] (standard)	Weekly earnings (in dollars)[2]
Office occupations - men			
Accounting clerks:			
Accounting clerks II:			
Nonmanufacturing	97	40.0	383.00
Transportation and utilities	56	40.0	414.00
Office occupations - women			
Secretaries	3,675	39.5	458.00
Nonmanufacturing	3,033	39.5	453.00
Secretaries I:			
Manufacturing	56	40.0	358.50
Secretaries II	771	40.0	403.50
Nonmanufacturing	623	40.0	399.00
Secretaries III	1,728	39.5	457.50
Nonmanufacturing	1,492	39.5	454.00
Secretaries IV	650	39.5	525.50
Manufacturing	139	39.5	540.00
Nonmanufacturing	511	39.0	522.00
Transportation and utilities	59	40.0	573.00
Secretaries V	183	39.0	617.50
Nonmanufacturing	120	39.5	634.00
Word processors:			
Nonmanufacturing	117	40.0	390.00
Word processors II	225	40.0	504.00
Nonmanufacturing	68	40.0	426.50
Key entry operators	437	40.0	343.50
Manufacturing	65	39.5	355.00
Nonmanufacturing	372	40.0	341.50
Transportation and utilities	80	40.0	369.00
Key entry operators I	258	40.0	321.00
Nonmanufacturing	216	40.0	319.00
Transportation and utilities	56	40.0	337.50
Key entry operators II	179	40.0	376.00
Nonmanufacturing	156	39.5	373.00
Accounting clerks	3,184	40.0	373.50
Manufacturing	946	39.5	411.00
Nonmanufacturing	2,238	40.0	358.00
Transportation and utilities	839	40.0	346.00
Accounting clerks I	531	40.0	317.50
Accounting clerks II	1,209	39.5	345.50
Manufacturing	368	39.5	381.50
Nonmanufacturing	841	40.0	330.00
Transportation and utilities	248	40.0	362.00
Accounting clerks III	1,047	40.0	411.50
Manufacturing	337	39.5	429.50
Nonmanufacturing	710	40.0	403.50
Payroll clerks	295	40.0	376.00
Manufacturing	93	40.0	460.50
Nonmanufacturing	202	40.0	337.00
Transportation and utilities	28	40.0	397.00
File clerks	193	40.0	338.00
Nonmanufacturing	106	39.5	304.00
File clerks I	85	40.0	288.50
Nonmanufacturing	66	40.0	286.00
File clerks II	88	39.5	346.00
Receptionists	121	40.0	308.50
Nonmanufacturing	106	40.0	300.50
Switchboard operators	281	40.0	276.00
Nonmanufacturing	250	40.0	268.50
Switchboard operator-receptionists	197	39.0	267.00
Professional and technical occupations - men			
Computer systems analysts:			
Manufacturing	369	40.0	789.00
Computer systems analysts I	219	40.0	657.50
Computer systems analysts II:			
Manufacturing	146	40.0	790.00
Computer systems analysts III:			
Manufacturing	99	40.0	903.50
Computer programmers:			
Manufacturing	144	40.0	613.00
Computer programmers II:			
Manufacturing	69	40.0	548.00
Computer programmers III:			
Manufacturing	61	39.5	691.00
Computer operators:			
Computer operators II:			
Nonmanufacturing:			
Transportation and utilities	31	40.0	355.50
Drafters:			
Manufacturing	201	40.0	565.50
Drafters IV:			
Manufacturing	82	40.0	560.50
Drafters V:			
Manufacturing	74	40.0	643.50
Electronics technicians:			
Electronics technicians II	232	40.0	550.00
Professional and technical occupations - women			
Computer systems analysts:			
Computer systems analysts I	233	40.0	647.00
Computer programmers:			
Manufacturing	103	39.5	623.00
Computer programmers II:			
Nonmanufacturing:			
Transportation and utilities	36	40.0	545.50
Computer programmers III:			
Manufacturing	54	39.5	657.00

See footnotes at end of tables.

Table A-15. Hourly earnings of maintenance, toolroom, and powerplant workers in establishments employing 500 workers or more in Houston, TX, April 1989

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[2]			Number of workers receiving straight-time hourly earnings (in dollars) of —																					
		Mean[3]	Median[3]	Middle range[4]	Under 7.50	7.50 and under 8.00	8.00 – 8.50	8.50 – 9.00	9.00 – 9.50	9.50 – 10.00	10.00 – 10.50	10.50 – 11.00	11.00 – 11.50	11.50 – 12.00	12.00 – 12.50	12.50 – 13.00	13.00 – 13.50	13.50 – 14.00	14.00 – 14.50	14.50 – 15.00	15.00 – 15.50	15.50 – 16.00	16.00 – 16.50	16.50 – 17.00	17.00 – 17.50	17.50 – 18.00	18.00 and over
Maintenance carpenters	155	13.02	11.80	11.80–15.83	-	-	-	-	-	-	16	-	-	79	9	3	-	-	-	1	4	8	19	16	-	-	-
Manufacturing	55	15.68	16.02	15.60–16.80	-	-	-	-	-	-	-	-	-	-	4	3	-	-	-	1	4	8	19	16	-	-	-
Maintenance electricians	977	15.87	16.12	15.51–16.81	-	-	-	-	-	-	6	-	4	8	14	34	43	7	13	25	54	249	53	427	6	-	34
Manufacturing	563	15.53	15.82	15.02–16.02	-	-	-	-	-	-	-	-	4	8	14	10	29	7	10	25	54	244	53	68	3	-	34
Maintenance painters	104	13.45	15.27	11.20–16.03	-	-	12	6	1	-	-	-	19	1	-	5	1	-	-	-	10	18	23	8	-	-	-
Manufacturing	62	15.77	15.93	15.72–16.03	-	-	-	-	-	-	-	-	-	-	-	2	1	-	-	-	10	18	23	8	-	-	-
Maintenance machinists	330	15.33	15.16	15.16–15.72	-	-	-	-	-	-	-	4	4	-	4	6	-	-	4	2	154	113	5	27	5	-	2
Manufacturing	324	15.37	15.16	15.16–15.72	-	-	-	-	-	-	-	4	4	-	4	-	-	-	4	2	154	113	5	27	5	-	2
Maintenance mechanics (machinery)	1,355	15.42	15.72	15.02–16.80	-	-	-	-	-	6	-	16	16	29	52	43	26	20	20	107	164	274	65	513	4	-	-
Manufacturing	872	14.82	15.27	14.52–15.72	-	-	-	-	-	6	-	10	16	26	49	42	12	20	10	107	164	270	65	75	-	-	-
Maintenance pipefitters	816	15.03	15.16	15.16–15.83	-	-	-	-	-	-	-	-	-	-	29	150	-	-	-	1	281	186	57	112	-	-	-
Manufacturing	666	15.55	15.72	15.16–16.02	-	-	-	-	-	-	-	-	-	-	29	-	-	-	-	1	281	186	57	112	-	-	-
Motor vehicle mechanics	396	14.60	15.97	12.69–16.35	-	-	-	-	7	-	-	18	4	43	4	39	56	1	-	-	1	40	163	11	3	-	6
Manufacturing	68	13.92	13.30	13.00–15.51	-	-	-	-	-	-	-	-	-	6	2	9	29	-	-	-	1	15	-	3	3	-	-
Nonmanufacturing	328	14.74	16.35	12.69–16.35	-	-	-	-	7	-	-	18	4	37	2	30	27	1	-	-	-	25	163	8	-	-	6
General maintenance workers	170	8.39	8.67	7.35– 9.20	* 43	31	2	19	34	15	10	9	-	4	-	-	2	-	1	-	-	-	-	-	-	-	-
Nonmanufacturing	161	8.29	8.68	7.27– 9.20	43	31	2	17	34	15	7	5	-	4	-	-	2	-	1	-	-	-	-	-	-	-	-
Maintenance trades helpers	71	11.61	11.18	11.08–14.00	5	1	-	-	1	1	3	1	36	3	-	-	-	1	12	7	-	-	-	-	-	-	-
Tool and die makers	76	13.29	12.64	12.64–14.70	-	-	-	-	-	-	-	-	-	-	14	36	-	-	5	14	6	-	1	-	-	-	-
Manufacturing	76	13.29	12.64	12.64–14.70	-	-	-	-	-	-	-	-	-	-	14	36	-	-	5	14	6	-	1	-	-	-	-
Stationary engineers	299	13.98	14.22	12.32–15.72	3	-	-	1	-	7	3	15	21	7	28	11	22	7	40	19	4	62	19	12	12	6	-
Manufacturing	105	15.16	15.72	14.86–16.02	-	-	-	-	-	-	-	-	3	2	11	3	1	4	-	11	-	42	11	9	8	-	-
Nonmanufacturing	194	13.34	13.39	11.55–14.93	3	-	-	1	-	7	3	15	18	5	17	8	21	3	40	8	4	20	8	3	4	6	-

* Workers were distributed as follows: 1 at $5.00 to $5.50; 10 at $5.50 to $6.00; 20 at $6.00 to $6.50; 9 at $6.50 to $7.00; and 3 at $7.00 to $7.50.

Also see footnotes at end of tables.

Table A-16. Hourly earnings of material movement and custodial workers in establishments employing 500 workers or more in Houston, TX, April 1989

Occupation and industry division	Number of workers	Hourly earnings (in dollars)[2]			Number of workers receiving straight-time hourly earnings (in dollars) of —																						
		Mean[3]	Median[3]	Middle range[3]	3.35 and under 3.50	3.50 – 4.00	4.00 – 4.50	4.50 – 5.00	5.00 – 5.50	5.50 – 6.00	6.00 – 6.50	6.50 – 7.00	7.00 – 7.50	7.50 – 8.00	8.00 – 8.50	8.50 – 9.00	9.00 – 9.50	9.50 – 10.00	10.00 – 10.50	10.50 – 11.00	11.00 – 12.00	12.00 – 13.00	13.00 – 14.00	14.00 – 15.00	15.00 – 16.00	16.00 – 17.00	17.00 – 18.00
Truckdrivers	2,258	13.28	12.96	10.50–15.76	-	-	-	5	5	-	1	4	3	2	-	5	6	198	193	193	81	488	112	14	861	87	-
Manufacturing	100	13.13	13.10	11.57–15.08	-	-	-	-	-	-	-	-	-	-	-	-	3	1	12	7	8	15	11	10	33	-	-
Nonmanufacturing	2,158	13.29	12.96	10.50–15.76	-	-	-	5	5	-	1	4	3	2	-	5	3	197	181	186	73	473	101	4	828	87	-
Truckdrivers, tractor-trailer	928	12.26	12.76	10.50–12.96	-	-	-	-	-	-	-	-	1	-	-	1	1	5	159	187	11	389	54	14	19	87	-
Manufacturing	85	13.10	12.05	11.70–15.00	-	-	-	-	-	-	-	-	-	-	-	-	-	1	10	1	6	15	3	10	19	-	-
Nonmanufacturing	863	12.19	12.76	10.50–12.96	-	-	-	-	-	-	-	-	1	-	-	1	1	4	149	186	5	374	51	4	-	87	-
Transportation and utilities	302	13.84	12.76	12.76–16.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	175	36	4	-	87	-
Receivers	250	9.41	8.50	6.50–12.47	-	-	-	14	11	13	23	27	13	7	16	23	6	14	1	15	4	15	9	6	1	30	2
Manufacturing	59	14.42	16.72	11.00–16.80	-	-	-	-	-	-	1	1	-	-	-	1	1	-	-	8	4	3	1	6	1	30	2
Nonmanufacturing	191	7.87	7.11	6.00– 8.90	-	-	-	14	11	13	22	26	13	7	16	22	5	14	1	7	-	12	8	-	-	-	-
Shippers and receivers	198	9.88	9.80	9.42–10.71	-	-	-	-	-	2	2	4	2	6	10	11	15	90	4	6	32	14	-	-	-	-	-
Manufacturing	107	10.00	9.96	8.67–11.53	-	-	-	-	-	2	2	4	2	5	6	8	12	14	4	5	31	12	-	-	-	-	-
Warehousemen	424	11.93	12.01	10.22–13.88	-	-	-	-	-	-	12	8	2	7	5	10	20	32	36	12	12	110	103	17	35	3	-
Manufacturing	135	12.90	12.40	10.22–15.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36	1	12	28	5	15	35	3	-
Nonmanufacturing	289	11.47	12.01	9.58–13.88	-	-	-	-	-	-	12	8	2	7	5	10	20	32	-	11	-	82	98	2	-	-	-
Transportation and utilities	198	12.81	13.86	12.01–13.88	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	11	-	82	98	2	-	-	-
Order fillers	608	9.50	10.00	8.09–10.00	-	-	-	7	7	85	7	12	11	20	22	1	1	97	198	4	4	132	-	-	-	-	-
Nonmanufacturing	593	9.45	10.00	8.09–10.00	-	-	-	7	7	85	7	10	10	20	22	1	1	97	198	4	4	120	-	-	-	-	-
Material handling laborers	268	8.53	8.85	7.12– 9.51	-	-	-	-	5	9	16	30	39	3	14	20	11	78	20	12	4	7	-	-	-	-	-
Manufacturing	82	9.17	8.85	8.05–10.00	-	-	-	-	-	-	2	3	14	1	8	14	-	8	20	4	4	4	-	-	-	-	-
Nonmanufacturing	186	8.25	8.69	6.71– 9.51	-	-	-	-	5	9	14	27	25	2	6	6	11	70	-	8	-	3	-	-	-	-	-
Forklift operators	873	10.18	10.00	8.38–12.24	-	-	-	-	28	14	24	23	26	60	50	39	16	116	168	23	58	114	74	-	-	40	-
Manufacturing	293	12.36	12.50	10.59–13.28	-	-	-	-	-	-	-	-	1	-	12	2	7	29	18	16	25	69	74	-	-	40	-
Nonmanufacturing	580	9.07	9.56	7.70–10.00	-	-	-	-	28	14	24	23	25	60	38	37	9	87	150	7	33	45	-	-	-	-	-
Guards	3,469	5.53	5.00	4.00– 6.00	20	708	344	500	536	373	238	189	120	121	81	29	20	48	55	25	10	5	1	22	-	24	-
Manufacturing	162	9.32	8.60	7.62–10.27	-	-	-	-	-	-	-	29	10	29	12	12	11	13	8	6	6	3	1	22	-	-	-
Nonmanufacturing	3,307	5.34	5.00	4.00– 5.95	20	708	344	500	536	373	238	160	110	92	69	17	9	35	47	19	4	2	-	-	-	24	-
Guards I	3,402	5.40	5.00	4.00– 6.00	20	708	344	500	536	373	238	189	120	120	79	21	10	39	53	21	5	3	1	22	-	-	-
Manufacturing	133	9.30	7.98	7.18–10.55	-	-	-	-	-	-	-	29	10	28	10	4	5	6	6	6	3	3	1	22	-	-	-
Nonmanufacturing	3,269	5.24	5.00	4.00– 5.80	20	708	344	500	536	373	238	160	110	92	69	17	5	33	47	15	2	-	-	-	-	-	-
Janitors, porters, and cleaners	11,879	4.09	3.35	3.35– 4.35	7366	1021	532	493	116	800	672	385	210	139	42	15	22	20	-	1	20	25	-	-	-	-	-
Manufacturing	184	7.40	7.38	6.50– 8.27	-	-	-	-	3	15	20	37	18	31	27	13	17	1	-	1	-	1	-	-	-	-	-
Nonmanufacturing	11,695	4.04	3.35	3.35– 4.25	7366	1021	532	493	113	785	652	348	192	108	15	2	5	19	-	-	20	24	-	-	-	-	-
Transportation and utilities	26	10.82	11.23	11.23–11.60	-	-	-	-	-	-	-	-	1	1	-	-	4	-	-	-	20	-	-	-	-	-	-

See footnotes at end of tables.

Table A-17. **Average hourly earnings of maintenance, toolroom, powerplant, material movement and custodial workers by sex in establishments employing 500 workers or more in Houston, TX, April 1989**

Sex,[4] occupation, and industry division	Number of workers	Average (mean[3]) hourly earnings (in dollars)[2]
Maintenance, toolroom, and powerplant occupations - men		
Maintenance carpenters	154	13.00
Manufacturing	54	15.68
Maintenance electricians		
Manufacturing	543	15.54
Maintenance painters	98	13.31
Manufacturing	56	15.78
Maintenance mechanics (machinery)		
Manufacturing	855	14.83
Motor vehicle mechanics		
Manufacturing	67	13.90
General maintenance workers	166	8.32
Nonmanufacturing	157	8.22
Tool and die makers	71	13.15
Manufacturing	71	13.15
Stationary engineers	261	14.20
Manufacturing	90	15.46
Nonmanufacturing	171	13.54
Material movement and custodial occupations - men		
Truckdrivers:		
Manufacturing	100	13.13
Truckdrivers, tractor-trailer	880	12.17
Manufacturing	65	13.10
Nonmanufacturing	815	12.10
Receivers	218	9.68
Manufacturing	58	14.41
Nonmanufacturing	160	7.97
Warehousemen:		
Manufacturing	108	12.81
Order fillers	463	10.23
Nonmanufacturing	448	10.19
Material handling laborers	262	8.51
Manufacturing	80	9.22
Nonmanufacturing	182	8.19
Forklift operators	838	10.17
Manufacturing	280	12.39
Nonmanufacturing	558	9.05
Guards	3,066	5.42
Manufacturing	106	9.39
Nonmanufacturing	2,960	5.28
Guards I	3,019	5.30
Manufacturing	96	9.43
Nonmanufacturing	2,923	5.17
Janitors, porters, and cleaners	5,446	4.31
Manufacturing	118	7.67
Nonmanufacturing	5,328	4.24
Material movement and custodial occupations - women		
Guards	382	6.16
Nonmanufacturing	347	5.86
Guards I	376	6.09
Nonmanufacturing	346	5.83
Janitors, porters, and cleaners	6,319	3.86
Nonmanufacturing	6,266	3.84

See footnotes at end of tables.

Footnotes

Some of these standard footnotes may not apply to this bulletin.

[1] Standard hours reflect the workweek for which employees receive their regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates), and the earnings correspond to these weekly hours.

[2] Excludes premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases—but not bonuses—under cost-of-living allowance clauses, and incentive payments, however, are included.

[3] The mean is computed for each job by totaling the earnings of all workers and dividing by the number of workers. The median designates position—one-half of the workers receive the same as or more and one-half receive the same as or less than the rate shown. The middle range is defined by two rates of pay; one-fourth of the workers earn the same as or less than the lower of these rates and one-fourth earn the same as or more than the higher rate.

[4] Earnings data relate only to workers whose sex identification was provided by the establishment.

[5] Estimates for periods ending prior to 1976 relate to men only for skilled maintenance and unskilled plant workers. All other estimates relate to men and women.

[6] Data do not meet publication criteria or data not available.

Appendix A. Scope and Method of Survey

In January 1987, the Bureau began to phase in a new 90-area program to replace the 70-area program that had produced annual surveys since July 1974. When the new plan is fully implemented in 1990, 32 of the areas will be surveyed annually, and two groups of 29 areas will be surveyed in alternate years. (For a full discussion of the change, see Laura Scofea, "BLS Area Wage Surveys Will Cover More Areas," *Monthly Labor Review*, June 1986, pp. 19-23.)

In each area surveyed[1], the Bureau obtains wages and related benefits data from representative establishments within six broad industry divisions: Manufacturing; transportation, communication, and other public utilities; wholesale trade; retail trade; finance, insurance, and real estate; and services. Government operations and the construction and extractive industries are excluded. Small establishments—generally those with fewer than 50 employees—are excluded because they have few incumbents in the occupations studied. Appendix table 1 shows the number of establishments and workers estimated to be within the scope of this survey, as well as the number actually studied.

In the 32 areas surveyed annually, Bureau field representatives obtain data by personal visits at 4-year intervals. In intervening years, only information on employment and occupational earnings is collected by a combination of personal visit, mail questionnaire, and telephone interview from establishments participating in the previous survey.

In the two groups of 29 areas that are surveyed in alternate years, Bureau field representatives obtain data for a given area by personal visits if the previous data for the area were obtained primarily by mail and telephone. Thus, in a 4-year period, an area that was surveyed by personal visit the first year will have no survey in the second, a mail and telephone survey in the third, and none in the fourth. As with annual surveys, information on establishment practices and employee benefits is presented only for surveys conducted by personal visits; when information is collected primarily by mail and telephone, only information on employment and earnings is presented.

A sample of the establishments in the scope of the survey is selected for study prior to each personal visit survey. This sample, minus establishments which go out of business or are no longer within the industrial scope of the survey, is retained until the next personal visit survey is conducted. In most cases, establishments new to the area are not considered in the scope of the survey until the selection of a sample for a personal visit survey.

The sampling procedures involve detailed stratification of all establishments within the scope of an individual area survey by industry and number of employees. From this stratified universe a probability sample is selected, with each establishment having a predetermined chance of selection. To obtain optimum accuracy at minimum cost, a greater proportion of large than small establishments is selected. When data are combined, each establishment is weighted according to its probability of selection so that unbiased estimates are generated. For example, if one out of four establishments is selected, it is given a weight of 4 to represent itself plus three others. An alternate of the same original probability is chosen in the same industry-size classification if data are not available from the original sample member. If no suitable substitute is available, additional weight is assigned to a sample member that is similar to the missing unit.

Occupations and earnings

Occupations selected for study are common to a variety of manufacturing and nonmanufacturing industries, and are of the following types: (1) Office clerical; (2) professional and technical; (3) maintenance, toolroom, and powerplant; and (4) material movement and custodial. Occupational classification is based on a uniform set of job descriptions designed to take account of interestablishment variation in duties within the same job. Occupations selected for study are listed and described in appendix B, along with corresponding occupational codes and titles from the 1980 edition of the *Standard Occupational Classification Manual*.

Unless otherwise indicated, the earnings data following the job titles are for all industries combined. Earnings data for some of the occupations listed and described, or for some industry divisions within the scope of the survey, are not presented in the A-series tables because either (1) data were insufficient to provide meaningful statistical results, or (2) there is a possibility of disclosure of individual establishment data. Earnings data not shown separately for industry divisions are included in data for all industries combined.

Separate data for men's and women's earnings or earnings by occupational level are not presented when a significant number of workers are not identified by sex or level. In such cases, workers are only included for both sexes combined or for the overall level.

Occupational employment and earnings data are shown for full-time workers, i.e., those hired to work a regular weekly schedule. Earnings data exclude premium pay for overtime and for work on weekends, holidays, and late shifts. Also excluded are

performance bonuses and lump-sum payments of the type negotiated in the auto and aerospace industries, as well as profit-sharing payments, attendance bonuses, Christmas or year-end bonuses, and other nonproduction bonuses. Pay increases—but not bonuses—under cost-of-living allowance clauses, and incentive payments, however, are included. Weekly hours for office clerical and professional and technical occupations refer to the standard workweek (rounded to the nearest half hour) for which employees receive regular straight-time salaries (exclusive of pay for overtime at regular and/or premium rates). Average weekly earnings for these occupations are rounded to the nearest half dollar. Some A-series tables provide distributions of workers by earnings; changes in the size of earnings intervals are indicated by heavy vertical lines.

These surveys measure the level of occupational earnings in an area at a particular time. Changes in an occupational average over time reflect, in addition to earnings changes, factors such as changes in proportions of workers employed by high- or low-wage firms, or high-wage workers advancing to better jobs and being replaced by new workers at lower rates. Such shifts in employment could decrease an occupational average even though most establishments in an area increased wages since the last survey. Changes in earnings of occupational groups, shown in table A-7, are better indicators of wage trends than are earnings changes for individual jobs within the groups.

Average earnings reflect composite, areawide estimates. Industries and establishments differ in pay level and job staffing, and thus contribute differently to the estimates for each job. Pay averages may fail to reflect accurately the wage differential among jobs in individual establishments.

Average pay levels for men and women in selected occupations should not be assumed to reflect differences in pay of the sexes within individual establishments. Factors which may contribute to differences include progression within established rate ranges (only the rates paid incumbents are collected) and performance of specific duties within the general survey job descriptions. Job descriptions used to classify employees in these surveys usually are more generalized than those used in individual establishments and allow for minor differences among establishments in specific duties performed.

Occupational employment estimates represent the total in all establishments within the scope of the study and not the number actually surveyed. Because occupational structures among establishments differ, estimates of occupational employment obtained from the sample of establishments studied serve only to indicate the relative importance of the jobs studied. These differences in occupational structure do not affect materially the accuracy of the earnings data.

Wage trends for selected occupational groups

Indexes in table A-7 measure wages at a given time expressed as a percent of wages during the base period. Subtracting 100 from the index yields the percent change in wages from the base period to the date of the index. The percent increases in table A-7 relate to wage changes between the indicated dates. Annual rates of increase, where shown, reflect the amount of increase for 12 months when the time span between surveys was other than 12 months. These computations are based on the assumption that wages increased at a constant rate between surveys.

The indexes and percent increases are based on changes in average hourly earnings of men and women in establishments reporting the jobs listed below in both the current and previous year (matched establishments). The data are adjusted to remove the effect on average earnings of employment shifts among establishments and turnover of establishments included in survey samples. The percent increases, however, are still affected by factors other than wage increases. Turnover may affect an establishment average for an occupation when workers are paid under plans providing a range of wage rates for individual jobs. In periods of increased hiring, for example, new employees may enter at the bottom of the range, depressing the average without a change in wage rates.

Occupations used to compute wage trends are:

Office clerical

Secretaries
Stenographers I and II
Typists I and II
Key entry operators I and II
Accounting clerks I, II, III, and IV
Payroll clerks
File clerks I, II, and III
Messengers
Order clerks I and II
Switchboard operators

Electronic data processing

Computer systems analysts I, II, III, and IV
Computer programmers I, II, III, and IV
Computer operators I, II, III, and IV

Industrial nurses

Registered industrial nurses

Skilled maintenance

Carpenters
Electricians
Painters
Machinists
Mechanics (machinery)
Pipefitters
Motor vehicle mechanics
Tool and die makers

Unskilled plant

Janitors, porters, and cleaners
Material handling laborers

Percent changes for individual areas in the program are computed as follows:

1. Each occupation is assigned a weight based on its proportion of employment in the occupational group in the earlier of the 2 years being compared. If for example, 1,000 workers were reported in the skilled maintenance group in the earlier year and 200 of these workers were painters, the weight assigned to painters would be 0.20. Using a constant employment weight dampens the effects of employment shifts on wage change measures.

2. Average earnings are computed for each occupation for the 2 years being compared. Earnings are used only from matched establishments; that is, establishments that are in the survey both years.

3. Group averages are computed by multiplying the weight of each occupation (step 1) by the occupation's average earnings for each year (step 2). The products are totaled to obtain group averages.

4. The ratio of group averages for 2 consecutive years is computed by dividing the average for the current year by the average for the earlier year. The result—expressed as a percent—less 100 is the percent change.

Pay relationships in establishments

Tables A-8 through A-11 compare average pay of occupations in individual establishments. These comparisons, expressed as pay relatives (pay for one of the occupations equals 100), differ from comparisons of overall survey averages, such as those shown in tables A-1 through A-6. The latter reflect differences in contributions to the survey averages by establishments with disparate pay levels; the pay relative comparisons are not affected by such differences. The following procedures are used to compute relatives in tables A-8 through A-11:

1. Establishments employing workers in both of the paired occupations were identified.

2. Pay levels (averages) for the two occupations were weighted by the combined employment of both jobs to reflect each establishment's contribution to the totals used in this comparison.

3. The weighted pay levels of the two jobs were summed separately; each total was divided by the other and the quotients multiplied by 100 to produce the two pay relatives shown for each job pairing.

Establishment practices and employee benefits

Tabulations on selected establishment practices and employee benefits (B-series tables) are not presented in this bulletin. In this area, information for these tabulations is collected at 4-year intervals. These tabulations on minimum entrance salaries for inexperienced office workers; shift differentials; scheduled weekly hours and days; paid holidays; paid vacations; health, insurance, and retirement plans; and other selected benefits are presented (in the B-series tables) in a previous bulletin for this area.

[1] The Bureau also conducts more limited area studies in over 100 areas at the request of the Employment Standards Administration of the U.S. Department of Labor.

Appendix table 1. Establishments and workers within scope of survey and number studied in Houston, TX,[1] April 1989

Industry division[2]	Minimum employment in establishments in scope of survey	Number of establishments		Workers in establishments		
		Within scope of survey[3]	Studied	Within scope of survey[4]		Studied
				Number	Percent	
All establishments						
All divisions	–	2,723	301	606,295	100	223,738
Manufacturing	50	615	92	136,372	22	62,849
Nonmanufacturing	–	2,108	209	469,923	78	160,889
Transportation, communication, and other public utilities[5]	50	238	45	67,109	11	45,927
Wholesale trade[6]	50	409	34	58,836	10	16,379
Retail trade[6]	50	618	40	165,279	27	58,873
Finance, insurance, and real estate[6]	50	311	28	58,948	10	11,795
Services[6 7]	50	532	62	119,751	20	27,915
Large establishments						
All divisions	–	215	98	332,584	100	193,208
Manufacturing	500	55	36	71,502	21	53,372
Nonmanufacturing	–	160	62	261,082	79	139,836
Transportation, communication, and other public utilities[5]	500	17	15	43,499	13	41,681
Wholesale trade[6]	500	9	5	16,929	5	12,307
Retail trade[6]	500	68	18	123,234	37	56,894
Finance, insurance, and real estate[6]	500	19	6	22,654	7	7,830
Services[6 7]	500	47	18	54,766	16	21,124

[1] The Houston, TX Standard Metropolitan Statistical Area, as defined by the Office of Management and Budget through February 1974, consists of Brazoria, Fort Bend, Harris, Liberty, Montgomery, and Waller Counties. The "workers within scope of survey" estimates provide a reasonably accurate description of the size and composition of the labor force included in the survey. Estimates are not intended, however, for comparison with other statistical series to measure employment trends or levels since (1) planning of wage surveys requires establishment data compiled considerably in advance of the payroll period studied, and (2) small establishments are excluded from the scope of the survey.

[2] The 1972 edition of the *Standard Industrial Classification Manual* was used to classify establishments by industry division. All government operations are excluded from the scope of the survey.

[3] Includes all establishments with total employment at or above the minimum limitation. All outlets (within the area) of nonmanufacturing companies are considered as one establishment when located within the same industry division.

[4] Includes all workers in all establishments with total employment (within the area) at or above the minimum limitation.

[5] Abbreviated to "transportation and utilities" in the A-series tables. Taxicabs and services incidental to water transportation are excluded. Houston's transit system is governmentally owned and operated and excluded from the scope of the survey.

[6] Separate data for this division are not presented in the A-series tables, but the division is represented in the "all industries" and "nonmanufacturing" estimates.

[7] Hotels and motels; laundries and other personal services; business services; automobile repair, rental, and parking; motion pictures; nonprofit membership organizations (excluding religious and charitable organizations); and engineering and architectural services.

Appendix B. Occupational Descriptions

The primary purpose of preparing job descriptions for the Bureau's wage surveys is to assist its field representatives in classifying into appropriate occupations workers who are employed under a variety of payroll titles and different work arrangements from establishment to establishment and from area to area. This permits grouping of occupational wage rates representing comparable job content. Because of this emphasis on comparability of occupational content, the Bureau's job descriptions may differ significantly from those in use in individual establishments or those prepared for other purposes. In applying these job descriptions, the Bureau's field representatives are instructed to exclude working supervisors; apprentices; and part-time, temporary, and probationary workers. Handicapped workers whose earnings are reduced because of their handicap are also excluded. Learners, beginners, and trainees, unless specifically included in the job description, are excluded.

The titles and numerical codes below the job titles in this appendix are taken from the 1980 edition of the *Standard Occupational Classification Manual* (SOC), issued by the U.S. Department of Commerce, Office of Federal Statistical Policy and Standards.

In general, the Bureau of Labor Statistics' occupational descriptions are much more specific than those found in the SOC manual. The BLS occupation, "Registered Industrial Nurse," for example, is limited to workers providing medical assistance and other related services (e.g., health education) to persons who are ill or become ill or suffer an injury in a factory or other establishment. The SOC occupation (code 29) includes a variety of registered nurses (e.g., school nurse, head nurse, general duty nurse, private duty nurse) that are excluded from the BLS description.

Thus, in comparing the results of this survey with other sources, factors such as differences in occupational definitions and survey scope should be taken into consideration.

Office

SECRETARY

(4622: Secretary)

Provides principal secretarial support in an office, usually to one individual, and, in some cases, also to the subordinate staff of that individual. Maintains a close and highly responsive relationship to the day-to-day activities of the supervisor and staff. Works fairly independently, receiving a minimum of detailed supervision and guidance. Performs varied clerical and secretarial duties requiring a knowledge of office routine and an understanding of the organization, programs, and procedures related to the work of the office.

Exclusions. Not all positions that are titled "secretary" possess the above characteristics. Examples of positions which are excluded from the definition are as follows:

a. Clerks or secretaries working under the direction of secretaries or administrative assistants as described in e;
b. Stenographers not fully performing secretarial duties;
c. Stenographers or secretaries assigned to two or more professional, technical, or managerial persons of equivalent rank;
d. Assistants or secretaries performing any kind of technical work, e.g., personnel, accounting, or legal work;
e. Administrative assistants or supervisors performing duties which are more difficult or more responsible than the secretarial work described in LR-1 through LR-4;
f. Secretaries receiving additional pay primarily for maintaining confidentiality of payroll records or other sensitive information;
g. Secretaries performing routine receptionist, typing, and filing duties following detailed instructions and guidelines; these duties are less responsible than those described in LR-1 below;
h. Trainees.

Classification by level. Secretary jobs which meet the required characteristics are matched at one of five levels according to two factors: (a) Level of the secretary's supervisor within the overall organizational structure, and (b) level of the secretary's responsibility. The table following the explanations of these factors indicates the level of the secretary for each combination of factors.

Level of Secretary's Supervisor (LS)

Secretaries should be matched at one of the three LS levels below best describing the organization of the secretary's supervisor.

LS-1

Organizational structure is not complex and internal procedures and administrative controls are simple and informal; supervisor directs staff through face-to-face meetings.

LS-2

Organizational structure is complex and is divided into subordinate groups that usually differ from each other as to subject matter, function, etc.; supervisor usually directs staff through intermediate supervisors; internal procedures and administrative controls are formal. An entire organization (e.g., division, subsidiary, or parent organization) may contain a variety of subordinate groups which meet the LS-2 definition. Therefore, it is not unusual for one LS-2 supervisor to report to another LS-2 supervisor.

The presence of subordinate supervisors does not by itself mean LS-2 applies, e.g., a clerical processing organization divided into several units, each performing very similar work, is placed in LS-1.

In smaller organizations or industries such as retail trade, with relatively few organizational levels, the supervisor may have an impact on the policies and major programs of the entire organization, and may deal with important outside contacts, as described in LS-3.

LS-3

Organizational structure is divided into two or more subordinate supervisory levels (of which at least one is a managerial level) with several subdivisions at each level. Executive's program(s) are usually interlocked on a direct and continuing basis with other major organizational segments, requiring constant attention to extensive formal coordination, clearances, and procedural controls. Executive typically has: Financial decisionmaking authority for assigned program(s); considerable impact on the entire organization's financial position or image; and responsibility for, or has staff specialists in, such areas as personnel and administration for assigned organization. Executive plays an important role in determining the policies and major programs of the entire organization, and spends considerable time dealing with outside parties actively interested in assigned program(s) and current or controversial issues.

Level of Secretary's Responsibility (LR)

This factor evaluates the nature of the work relationship between the secretary and the supervisor or staff, and the extent to which the secretary is expected to exercise initiative and judgment. Secretaries should be matched at the level best describing their level of responsibility. When a position's duties span more than one LR level, the introductory paragraph at the beginning of each LR level should be used to determine which of the levels best matches the position. (Typically, secretaries performing at the higher levels of responsibility also perform duties described at the lower levels.)

LR-1

Carries out recurring office procedures independently. Selects the guideline or reference which fits the specific case. Supervisor provides specific instructions on new assignments and checks completed work for accuracy. Performs varied duties including or comparable to the following:

a. Responds to routine telephone requests which have standard answers; refers calls and visitors to appropriate staff. Controls mail and assures timely staff response; may send form letters;
b. As instructed, maintains supervisor's calendar, makes appointments, and arranges for meeting rooms;
c. Reviews materials prepared for supervisor's approval for typographical accuracy and proper format;
d. Maintains recurring internal reports, such as: Time and leave records, office equipment listings, correspondence controls, training plans, etc.;
e. Requisitions supplies, printing, maintenance, or other services. Types, takes and transcribes dictation, and establishes and maintains office files.

LR-2

Handles differing situations, problems, and deviations in the work of the office according to the supervisor's general instructions, priorities, duties, policies, and program goals. Supervisor may assist secretary with special assignments. Duties include or are comparable to the following:

a. Screens telephone calls, visitors, and incoming correspondence; personally responds to requests for information concerning office procedures; determines which requests should be handled by the supervisor, appropriate staff member, or other offices. May prepare and sign routine, nontechnical correspondence in own or supervisor's name;
b. Schedules tentative appointments without prior clearance. Makes arrangements for conferences and meetings and assembles established background materials, as directed. May attend meetings and record and report on the proceedings;
c. Reviews outgoing materials and correspondence for internal consistency and conformance with supervisor's procedures; assures that proper clearances have been obtained, when needed;
d. Collects information from the files or staff for routine inquiries on office program(s) or periodic reports. Refers nonroutine requests to supervisor or staff;
e. Explains to subordinate staff supervisor's requirements concerning office procedures. Coordinates personnel and administrative forms for the office and forwards for processing.

LR-3

Uses greater judgment and initiative to determine the approach or action to take in nonroutine situations. Interprets and adapts guidelines, including unwritten policies, precedents, and practices, which are not always completely applicable to changing situations. Duties include or are comparable to the following:

a. Based on a knowledge of the supervisor's views, composes correspondence on own initiative about administrative matters and general office policies for supervisor's approval;
b. Anticipates and prepares materials needed by the supervisor for conferences, correspondence, appointments, meetings, telephone calls, etc;, and informs supervisor on matters to be considered;
c. Reads publications, regulations, and directives and takes action or refers those that are important to the supervisor and staff;
d. Prepares special or one-time reports, summaries, or replies to inquiries, selecting relevant information from a variety of sources such as reports, documents, correspondence, other offices, etc., under general direction;
e. Advises secretaries in subordinate offices on new procedures; requests information needed from the subordinate office(s) for periodic or special conferences, reports, inquiries, etc. Shifts clerical staff to accommodate workload needs.

LR-4

Handles a wide variety of situations and conflicts involving the clerical or administrative functions of the office which often cannot be brought to the attention of the executive. The executive sets the overall objectives of the work. Secretary may participate in developing the work deadlines. Duties include or are comparable to the following:

a. Composes correspondence requiring some understanding of technical matters; may sign for executive when technical or policy content has been authorized;
b. Notes commitments made by executive during meetings and arranges for staff implementation. On own initiative, arranges for staff member to represent organization at conferences and meetings, establishes appointment priorities, or reschedules or refuses appointments or invitations;
c. Reads outgoing correspondence for executive's approval and alerts writers to any conflict with the file or departure from policies or executive's viewpoints; gives advice to resolve the problems;
d. Summarizes the content of incoming materials, specially gathered information, or meetings to assist executive; coordinates the new information with background office sources; draws attention to important parts or conflicts;
e. In the executive's absence, ensures that requests for action or information are relayed to the appropriate staff member; as needed, interprets request and helps implement action; makes sure that information is furnished in timely manner; decides whether executive should be notified of important or emergency matters.

Exclude secretaries performing any of the following duties:

Acts as office manager for the executive's organization, e.g., determines when new procedures are needed for changing situations and devises and implements alternatives; revises or clarifies procedures to eliminate conflict or duplication; identifies and resolves various problems that affect the orderly flow of work in transactions with parties outside the organization.

Prepares agenda for conferences; explains discussion topics to participants; drafts introductions and develops background information and prepares outlines for executive or staff member(s) to use in writing speeches.

Advises individuals outside the organization on the executive's views on major policies or current issues facing the organization; contacts or responds to contacts from high-ranking outside officials (e.g., city or State officials, members of Congress, presidents of national unions or large national or international firms, etc.) in unique situations. These officials may be relatively inaccessible, and each contact typically must be handled differently, using judgment and discretion.

Criteria For Matching Secretaries By Level

Level of Secretary's Supervisor	Level of Secretary's Responsibility			
	LR-1	LR-2	LR-3	LR-4
LS-1	I	II	III	IV
LS-2	I	III	IV	V
LS-3	I	IV	V	V

STENOGRAPHER

(4623: Stenographer)

Primary duty is to take dictation using shorthand, and to transcribe the dictation. May also type from written copy. May operate from a stenographic pool. May occasionally transcribe from voice recordings.

Excluded from this definition are:

a. Trainee positions not requiring a fully qualified stenographer;
b. Secretaries providing the principal secretarial support in an office and performing more responsible and discretionary tasks, as described in LR-1 through LR-4 in the secretary definition above;
c. Stenographers who take dictation involving the frequent use of a wide variety of technical or specialized vocabulary. Typically this kind of vocabulary cannot be learned in a relatively short period of time, e.g., a month or two;
d. Stenographers, such as shorthand reporters, who record material verbatim at hearings, conferences, or similar proceedings.

Stenographer I

Takes and transcribes dictation, receiving specific assignments along with detailed instructions on such requirements as form and presentation. The transcribed material is typically reviewed in rough draft, and the final transcription is reviewed for conform-

ance with the rough draft. May maintain files, keep simple records, or perform other relatively routine clerical tasks.

Stenographer II

Takes and transcribes dictation determining the most appropriate format. Performs stenographic duties requiring significantly greater independence and responsibility than Stenographer I. Supervisor typically provides general instructions. Work requires a thorough working knowledge of general business and office procedures and of the specific business operations, organizations, policies, procedures, files, workflow, etc. Uses this knowledge in performing stenographic duties and responsible clerical tasks such as maintaining follow-up files; assembling material for reports, memoranda, and letters; composing simple letters from general instructions; reading and routing incoming mail; answering routine questions, etc.

TYPIST

(4624: Typist)

Uses a manual, electric, or automatic typewriter to type various materials. Included are automatic typewriters that are used only to record text and update and reproduce previously typed items from magnetic cards or tape. May include typing of stencils, mats, or similar materials for use in duplicating processes. May do clerical work involving little special training, such as keeping simple records, filing records and reports, or sorting and distributing incoming mail.

Excluded from this definition is work that involves:

a. Typing directly from spoken material that has been recorded on disks, cylinders, belts, tapes, or other similar media;
b. The use of varitype machines, composing equipment, or automatic equipment in preparing material for printing; and
c. Familiarity with specialized terminology in various keyboard commands to manipulate or edit the recorded text to accomplish revisions, or to perform tasks such as extracting and listing items from the text, or transmitting text to other terminals, or using "sort" commands to have the machine reorder material. Typically requires the use of automatic equipment which may be either computer linked or have a programmable memory so that material can be organized in regularly used formats or preformed paragraphs which can then be coded and stored for future use in letters or documents.

Typist I

Performs *one or more of the following:* Copy typing from rough or clear drafts; or routine typing of forms, insurance policies, etc.; or setting up simple standard tabulations; or copying more complex tables already set up and spaced properly.

Typist II

Performs *one or more of the following:* Typing material in final form when it involves combining material from several sources; or responsibility for correct spelling, syllabication, punctuation, etc., of technical or unusual words or foreign language material; or planning layout and typing of complicated statistical tables to maintain uniformity and balance in spacing. May type routine form letters, varying details to suit circumstances.

WORD PROCESSOR

(4624: Typist)

Primary duty is to operate word-processing equipment to enter, store, retrieve, change, and present text or tabulations. Produces a variety of printed copy such as letters, documents, or reports. May enter regularly used formats or stored paragraphs that are organized and coded for future use. Recorded texts can be changed by rearranging paragraphs, replacing words, shifting lines, etc.

(Word-processing equipment typically has a full- or partial-page video-display screen (CRT) and a separate printer. The equipment may be integrated with a digital computer, have telecommunications capabilities, and also have capabilities for adding to or upgrading features. Automatic or electronic typewriters with limited text-editing capabilities, and often with single-line electronic display "windows," are not considered word-processing equipment.)

Excluded from this definition are:

a. Workers whose primary function is to enter a data base for purposes other than composition (see key entry operator);
b. Workers who use equipment and data base for purposes such as accounting, inventory control, sales, or original writing and editing;
c. Workers responsible for preparation of published reports, including page layout or selection of different type sizes.

Positions are classified into levels on the basis of the following definitions:

Word Processor I

Performs tasks requiring a knowledge of the word-processing equipment and familiarity with the formats and forms used in the establishment. Proficiency in grammar, spelling, and punctuation is also required to produce printed materials accurately. May refer problems to supervisor or higher level processor, or refer to operating manual.

Word Processor II

Work at this level requires considerable classroom or on-the-job training and may involve working directly with task originator rather than through supervisor. In addition to work assignments described for level I, duties include *one or more of the following:*

a. Uses the more sophisticated features of the equipment to carry out complex assignments, such as sorting, merging, and organizing text, or maintaining files;
b. Applies knowledge of specialized terminology or foreign language;
c. Tests new applications and procedures; or
d. Trains lower level processors.

KEY ENTRY OPERATOR

(4793: Data entry keyer)

Operates keyboard-controlled data entry device such as keypunch machine or key-operated magnetic tape or disk encoder to transcribe data into a form suitable for computer processing. Work requires skill in operating an alphanumeric keyboard and an understanding of transcribing procedures and relevant data entry equipment.

Positions are classified into levels on the basis of the following definitions:

Key Entry Operator I

Work is routine and repetitive. Under close supervision or following specific procedures or detailed instructions, works from various standardized source documents which have been coded and require little or no selecting, coding, or interpreting of data to be entered. Refers to supervisor problems arising from erroneous items, codes, or missing information.

Key Entry Operator II

Work requires the application of experience and judgment in selecting procedures to be followed and in searching for, interpreting, selecting, or coding items to be entered from a variety of source documents. On occasion may also perform routine work as described for level I.

NOTE: Excluded are operators above level II using the key entry controls to access, read, and evaluate the substance of specific records to take substantive actions, or to make entries requiring a similar level of knowledge.

ACCOUNTING CLERK

(4712: Bookkeeper and accounting and auditing clerk)

Performs one or more accounting tasks such as posting to registers and ledgers; balancing and reconciling accounts; verifying the internal consistency, completeness, and mathematical accuracy of accounting documents; assigning prescribed accounting distribution codes; examining and verifying the clerical accuracy of various types of reports, lists, calculations, postings, etc ; preparing journal vouchers; or making entries or adjustments to accounts.

Levels I and II require a basic knowledge of routine clerical methods and office practices and procedures as they relate to the clerical processing and recording of transactions and accounting information. Levels III and IV require a knowledge and understanding of the established and standardized bookkeeping and accounting procedures and techniques used in an accounting system, or a segment of an accounting system, where there are few variations in the types of transactions handled. In addition, some jobs at each level may require a basic knowledge and understanding of the terminology, codes, and processes used in an automated accounting system.

Accounting Clerk I

Performs very simple and routine accounting clerical operations, for example, recognizing and comparing easily identified numbers and codes on similar and repetitive accounting documents, verifying mathematical accuracy, and identifying discrepancies and bringing them to the supervisor's attention. Supervisor gives clear and detailed instructions for specific assignments. Employee refers to supervisor all matters not covered by instructions. Work is closely controlled and reviewed in detail for accuracy, adequacy, and adherence to instructions.

Accounting Clerk II

Performs one or more routine accounting clerical operations, such as: Examining, verifying, and correcting accounting transactions to ensure completeness and accuracy of data and proper identification of accounts, and checking that expenditures will not exceed obligations in specified accounts; totaling, balancing, and reconciling collection vouchers; posting data to transaction sheets where employee identifies proper accounts and items to be posted; and coding documents in accordance with a chart (listing) of accounts. Employee follows specific and detailed accounting procedures. Completed work is reviewed for accuracy and compliance with procedures.

Accounting Clerk III

Uses a knowledge of double entry bookkeeping in performing one or more of the following: Posts actions to journals, identifying subsidiary accounts affected and debit and credit entries to be made and assigning proper codes; reviews computer printouts against manually maintained journals, detecting and correcting erroneous postings, and preparing documents to adjust accounting classifications and other data; or reviews lists of transactions rejected by an automated system, determining reasons for rejections, and preparing necessary correcting material. On routine assignments, employee selects and applies established procedures and techniques. Detailed instructions are provided for difficult or unusual assignments. Completed work and methods used are reviewed for technical accuracy.

Accounting Clerk IV

Maintains journals or subsidiary ledgers of an accounting system and balances and reconciles accounts. Typical duties include one or both of the following: Reviews invoices and statements (verifying information, ensuring sufficient funds have been obligated, and if questionable, resolving with the submitting unit, determining accounts involved, coding transactions, and processing material through data processing for application in the accounting system); and/or analyzes and reconciles computer printouts with operating unit reports (contacting units and researching causes of discrepancies, and taking action to ensure that accounts balance). Employee resolves problems in recurring assignments in accordance with previous training and experience. Supervisor provides suggestions for handling unusual or nonrecurring transactions. Conformance with requirements and technical soundness of completed work are reviewed by the supervisor or are controlled by mechanisms built into the accounting system.

NOTE: Excluded from level IV are positions responsible for maintaining either a general ledger or a general ledger in combination with subsidiary accounts.

PAYROLL CLERK

(4713: Payroll and timekeeping clerk)

Performs the clerical tasks necessary to process payrolls and to maintain payroll records. Work involves *most of the following*: Processing workers' time or production records; adjusting workers' records for changes in wage rates, supplementary benefits, or tax deductions; editing payroll listings against source records; tracing and correcting errors in listings; and assisting in preparation of periodic summary payroll reports. In a nonautomated payroll system, computes wages. Work may require a practical knowledge of governmental regulations, company payroll policy, or the computer system for processing payrolls.

FILE CLERK

(4696: File clerk)

Files, classifies, and retrieves material in an established filing system. May perform clerical and manual tasks required to maintain files. Positions are classified into levels on the basis of the following definitions:

File Clerk I

Performs routine filing of material that has already been classified or which is easily classified in a simple serial classification system (e.g., alphabetical, chronological, or numerical). As requested, locates readily available material in files and forwards material; and may fill out withdrawal charge. May perform simple clerical and manual tasks required to maintain and service files.

File Clerk II

Sorts, codes, and files unclassified material by simple (subject matter) headings or partly classified material by finer subheadings. Prepares simple related index and cross-reference aids. As requested, locates clearly identified material in files and forwards material. May perform related clerical tasks required to maintain and service files.

File Clerk III

Classifies and indexes file material such as correspondence, reports, technical documents, etc., in an established filing system containing a number of varied subject matter files. May also file this material. May keep records of various types in conjunction with the files. May lead a small group of lower level file clerks.

MESSENGER

(4745: Messenger)

Performs various routine duties such as running errands, operating minor office machines such as sealers or mailers, opening mail, distributing mail on a regularly scheduled route or in a familiar area, and other minor clerical work. May deliver mail that requires some special handling, e.g., mail that is insured, registered, or marked for special delivery.

Excluded are positions which include any of the following as significant duties:

a. Operating motor vehicles;
b. Delivering valuables or security-classified mail when the work requires a continuing knowledge of special procedures for handling such items;
c. Weighing mail, determining postage, or recording and controlling registered, insured, and certified mail in the mail room;
d. Making deliveries to unfamiliar or widely separated buildings or points which are not part of an established route; or
e. Directing other workers.

ORDER CLERK

(4664: Order clerk)

Receives written or verbal customers' purchase orders for material or merchandise from customers or sales people. Work typically involves some combination of the following duties: Quoting prices; determining availability of ordered items and suggesting substitutes when necessary; advising expected delivery date and method of delivery; recording order and customer information on order sheets; checking order sheets for accuracy and adequacy of information recorded; ascertaining credit rating of customer; furnishing customer with acknowledgment of receipt of order; following up to see that order is delivered by the specified date or to let customer know of a delay in delivery; maintaining order file; checking shipping invoice against original order.

Exclude workers paid on a commission basis or whose duties include any of the following: Receiving orders for services rather than for material or merchandise; providing customers with consultative advice using knowledge gained from engineering or extensive technical training; emphasizing selling skills; handling material or merchandise as an integral part of the job.

Positions are classified into levels according to the following definitions:

Order Clerk I

Handles orders involving items which have readily identified uses and applications. May refer to a catalog, manufacturer's manual, or similar document to insure that proper item is supplied or to verify price of ordered item.

Order Clerk II

Handles orders that involve making judgments such as choosing which specific product or material from the establishment's product lines will satisfy the customer's needs, or determining the price to be quoted when pricing involves more than merely referring to a price list or making some simple mathematical calculations.

RECEPTIONIST

(4645: Receptionist)

Greets visitors, determines nature of visits, and directs visitors to appropriate persons. Receptionist duties may also include providing information, making appointments, answering a telephone (other than switchboard or console), keeping a log of visitors, and issuing visitor passes. May also perform typing or other routine clerical duties which may occupy a major portion of time, and are usually performed at the reception desk.

This classification excludes workers operating a telephone switchboard or console, performing guard duties, or performing more difficult clerical duties.

SWITCHBOARD OPERATOR

(4732: Telephone operator)

Operates a telephone switchboard or console used with a private branch exchange (PBX) system to relay incoming, outgoing, and intrasystem calls. May provide information to callers, record and transmit messages, keep record of calls placed and toll charges. Besides operating a telephone switchboard or console, may also type or perform routine clerical work (typing or routine clerical work may occupy the major portion of the worker's time, and is usually performed while at the switchboard or console). Chief or lead operators in establishments employing more than one operator are excluded. For an operator who also acts as a receptionist, see Switchboard operator-receptionist.

SWITCHBOARD OPERATOR-RECEPTIONIST

(4645: Receptionist)

At a single-position telephone switchboard or console, acts both as an operator—see Switchboard operator—and as a receptionist. Receptionist's work involves such duties as greeting visitors; determining nature of visitor's business and providing appropriate information; referring visitor to appropriate person in the organization or contacting that person by telephone and arranging an appointment; keeping a log of visitors.

Professional and Technical

NOTE: The following descriptions for computer systems analysts, programmers, and operators are derived from job descriptions developed for the National Survey of Professional, Administrative, Technical, and Clerical Pay (PATC). For the most part, they are comparable to the PATC descriptions for systems analysts and programmers levels I to IV and computer operators levels I to III. The level IV computer operator description is comparable to the combined levels IV, V, and VI PATC descriptions.

COMPUTER SYSTEMS ANALYST

(171:Computer systems analyst)

Analyzes business or scientific problems for resolution through electronic data processing. Gathers information from users, defines work problems, designs a system of computer programs and procedures to resolve the problems, and develops complete specifications (precise descriptions) to enable computer programmers to prepare required programs. May write the computer programs.

NOTE: Workers performing both systems analysis and programming should be classified as systems analysts if this is the skill used to determine their pay.

Excluded are:

a. Trainees who receive detailed directives and work plans, select authorized procedures for use in specific situations, and seek assistance for deviations and problems;

b. Positions which require a bachelor's degree in a specific scientific field (other than computer science); however, positions are potential matches where the required degree may be from any of several possible scientific fields;

c. Workers who primarily analyze and evaluate problems concerning computer equipment or its selection or utilization;

d. Computer systems analysts dealing primarily with system software which provides basic services for processing other work; however, positions matching this definition may develop a "total package" which includes not only analyzing work problems to be processed but also selecting the computer equipment and system software;

e. Top technical experts above level IV who develop broad unprecedented computer systems and/or conduct critical studies central to the success of large organizations having extensive technical or highly diversified computer requirements; and

f. Supervisors responsible for, or participating in hiring, firing, curtailing projects, reorganizing, or reallocating resources.

Positions are classified into levels on the basis of the following definitions:

Computer Systems Analyst I

Initial assignments are designed to expand practical experience in applying systems analysis techniques and procedures. Works independently carrying out factfinding and analysis of a single activity or routine problem. Applies established procedures where nature of system, feasibility, computer equipment, and programming language have already been decided. Adapts guides to specific situations. May solve routine user problems by modifying the existing system following clear precedents.

Supervisor defines objectives, priorities, and deadlines. Obtains advice where precedents are unclear or not available.

May direct technicians and others who assist in specific assignments.

Computer Systems Analyst II

Works independently developing or modifying a system of several varied sequences or formats where the nature of the system is predetermined. Recognizes probable interaction of related computer systems and predicts impact of a change in assigned system.

Typical duties include reviewing project proposals; gathering facts; analyzing data, preparing project synopses comparing alternatives; preparing specifications for programs; resolving processing problems; coordinating work with programmers; and orienting users.

Work requires competence in most phases of systems analysis and knowledge of system software and work processes.

May direct lower level analysts on assigned work. *OR*

Works on a segment of a complex data processing system as described for level III. Works independently on routine assignments and receives instruction and guidance on complex assignments.

Computer Systems Analyst III

Works independently maintaining and modifying complex systems or developing new subsystems. Systems typically input data from diverse sources and have multiple users.

Typical duties include guiding users in formulating requirements; analyzing project proposals; arbitrating conflicts between users; recommending optimum approach; and developing systems design. May serve as lead analyst directing and integrating the work of one or two lower level analysts.

Computer Systems Analyst IV

As a team or project leader, provides complete systems design in a highly complex area. The systems design establishes the framework from feasibility studies to post-implementation evaluation. May serve as the technical authority for a design area. At least one team member performs work at level III. *AND/OR*

As a staff specialist or consultant, resolves unique and unyielding systems problems using new technology. May be assisted on project by other analysts or technicians.

COMPUTER PROGRAMMER

(397:Programmer)

Converts specifications (precise descriptions) of business or scientific problems into a sequence of detailed instructions to solve the problems by digital computer. Draws program flow charts to describe the processing of data and develops the precise steps and processing logic which, when entered into the computer in coded language, cause the manipulation of data to achieve desired results. Tests and corrects programs and prepares instructions for operators who control the computer during production runs. Modifies programs to increase operating efficiency or to respond to changes in work processes; maintains records to document program development and revisions.

NOTE: Workers performing both systems analysis and programming should be classified as systems analysts if this is the skill used to determine their pay.

Excluded are:

a. Positions which require a bachelor's degree in a specific scientific field (other than computer science); however, positions are potential matches where the required degree may be from any of several possible scientific fields;
b. Workers who primarily analyze and evaluate problems concerning computer equipment or its selection or utilization;
c. Computer programmers (e.g., systems programmers) dealing primarily with system software which provides basic services for processing other work; however, positions matching this definition may develop a "total package" which includes not only analyzing work problems to be processed but also selecting the computer equipment and system software;
d. Employees with significant responsibility for supervising workers other than programmers or functions other than computer programming;
e. Supervisors responsible for, or participating in hiring, firing, curtailing projects, reorganizing, or reallocating resources; and
f. Team leaders and consultants above level IV who define highly complex programming problems and direct the development of computer programs for their solution, *AND/OR*
Team leaders and consultants who design improvements for highly complex programming problems where few precedents exist.

Positions are classified into levels on the basis of the following definitions:

Computer Programmer I

Receives classroom and/or on-the-job training in computer programming concepts and requirements of the subject-matter field. Performs elementary programming tasks such as drawing flow charts, writing operator instructions, or coding and testing simple programs.

Detailed step-by-step instructions are given; work is closely monitored in progress and reviewed in detail upon completion. Deviations must be authorized by supervisor.

May perform routine programming tasks as described in level II under close supervision. Also may perform elementary factfinding concerning a specific work process.

Computer Programmer II

Maintains and modifies routine programs. Work progresses from initial assignments designed to develop competence to work requiring a knowledge of established procedures and data processing requirements. Typical tasks include amending flow charts; coding, testing, and documenting changes; and writing routine new programs.

May evaluate simple interrelationships in programs and obtain information from users to modify routine programs.

Assignments have clear-cut and complete specifications and the format of the final product is very similar to that of the inputs. Work is monitored in progress and reviewed upon completion.

Computer Programmer III

As a fully qualified computer programmer, develops, modifies, and maintains conventional programs. Uses standard procedures and detailed specifications to independently devise program logic (may include translating mathematical notation), modify interrelationship of files and records, diagnose and correct errors, test and document work, and write computer operator instructions. The programs developed are typically linked to several other programs, with a variety of input records and varied formats produced in the output.

In addition, may analyze a single activity or routine problem when the nature of the programs, feasibility, and type of computer language and equipment have already been determined. Completed work is reviewed for conformance to standards, timeliness, and efficiency. May also guide or instruct lower level programmers, technicians, and others who assist on assignments. *OR*

Under close supervision, works on complex programs as described in level IV.

Computer Programmer IV

As an expert programmer, independently develops, modifies, and maintains complex programs which produce several interrelated but different products. Programs use data from diverse sources and have multiple users. Tests, documents, and writes operating instructions for all work.

May perform programming analysis such as investigating the feasibility of developing alternate programs, assisting users in defining needs, or participating on an EDP and user team working on large and complicated programs.

Completed work is reviewed for timeliness, compatibility with other work, and effectiveness in meeting requirements. May function as team leader of a few lower level programmers or technicians on assigned work.

COMPUTER OPERATOR

(4612:Computer operator)

Monitors and operates the control console of either a main-frame digital computer or a group of mini-computers, in accordance with operating instructions, to process data. Work is characterized by the following:

- Studies operating instructions to determine equipment setup needed;
- Loads equipment with required items (tapes, cards, paper, etc.);
- Switches necessary auxiliary equipment into system;
- Starts and operates console;
- Diagnoses and corrects equipment malfunctions;
- Reviews error messages and makes corrections during operation or refers problems;
- Maintains operating record.

May test run new or modified programs and assist in modifying systems or programs. Included within the scope of this definition are fully qualified computer operators, trainees working to become fully qualified operators, and lead operators providing technical assistance to lower level positions.

Excluded are:

a. Workers operating small computer systems where there is little or no opportunity for operator intervention in program processing and few requirements to correct equipment malfunctions;
b. Peripheral equipment operators and remote terminal or computer operators who do not run the control console of either a main-frame digital computer or a group of mini-computers (see peripheral equipment operator); and
c. Workers using the computer for scientific, technical, or mathematical work when a knowledge of the subject matter is required.

Positions are classified into levels on the basis of the following definitions:

Computer Operator I

Receives on-the-job training in operating the control console (sometimes augmented by classroom training). Works under close personal supervision and is provided detailed written or oral guidance before and during assignments. As instructed, resolves common operating problems. May serve as an assistant operator working under close supervision or performing a portion of a more senior operator's work.

Computer Operator II

Processes scheduled routines which present few difficult operating problems (e.g., infrequent or easily resolved error conditions). In response to computer output instructions or error conditions, applies standard operating or corrective procedure. Refers problems which do not respond to preplanned procedure. May serve as an assistant operator, working under general supervision.

Computer Operator III

Processes a range of scheduled routines. In addition to operating the system and resolving common error conditions, diagnoses and acts on machine stoppage and error conditions not fully covered by existing procedures and guidelines (e.g., resetting switches and other controls or making mechanical adjustments to maintain or restore equipment operations). In response to computer output instructions or error conditions, may deviate from standard procedures if standard procedures do not provide a solution. Refers problems which do not respond to corrective procedures.

Computer Operator IV

Resolves a variety of nonstandard problems (e.g., frequent new programs, applications, and procedures). Problems may require unusual equipment connections and channel configurations. May also provide technical assistance to lower level operators and use knowledge of program languages, computer features, and software systems in assisting programmers, systems analysts, and other users in resolving problems. Completed work is usually submitted to users without supervisory review.

PERIPHERAL EQUIPMENT OPERATOR

(4613: Peripheral equipment operator)

Operates peripheral equipment which directly supports digital computer operations. Such equipment is uniquely and specifically designed for computer applications, but need not be physically or electronically connected to a computer. Printers, plotters, card read/punches, tape readers, tape units or drives, disk units or drives, and data display units are examples of such equipment.

The following duties characterize the work of a peripheral equipment operator:

a. Loading printers and plotters with correct paper; adjusting controls for forms, thickness, tension, printing density, and location; and unloading hard copy;
b. Labeling tape reels, disks, or card decks;
c. Checking labels and mounting and dismounting designated tape reels or disks on specified units or drives;
d. Setting controls which regulate operation of the equipment;
e. Observing panel lights for warnings and error indications and taking appropriate action;
f. Examining tapes, cards, or other material for creases, tears, or other defects which could cause processing problems.

This classification excludes workers (1) who monitor and operate a control console (see Computer operator) or a remote terminal, or (2) whose duties are limited to operating decollaters, bursters, separators, or similar equipment.

COMPUTER DATA LIBRARIAN

(4696: File clerk)
(4754: Stock and inventory clerk)

Maintains library of media (tapes, disks, cards, cassettes) used for automatic data processing applications. The following or similar duties characterize the work of a computer data librarian: Classifying, cataloging, and storing media in accordance with a standardized system; upon proper requests, releasing media for processing; maintaining records of releases and returns; inspecting returned media for damage or excessive wear to determine whether or not they need replacing. May perform minor repairs to damaged tapes.

DRAFTER

(372: Drafting occupation)

Performs drafting work requiring knowledge and skill in drafting methods, procedures, and techniques. Prepares drawings of structures, mechanical and electrical equipment, piping and duct systems and other similar equipment, systems, and assemblies. Uses recognized systems of symbols, legends, shadings, and lines having specific meanings in drawings. Drawings are used to communicate engineering ideas, designs, and information in support of engineering functions.

The following are excluded when they constitute the primary purpose of the job:

a. Design work requiring the technical knowledge, skill, and ability to conceive or originate designs;
b. Illustrating work requiring artistic ability;
c. Work involving the preparation of charts, diagrams, room arrangements, floor plans, etc.;
d. Cartographic work involving the preparation of maps or plats and related materials, and drawings of geological structures; and
e. Supervisory work involving the management of a drafting program or the supervision of drafters.

Positions are classified into levels on the basis of the following definitions:

Drafter I

Working under close supervision, traces or copies finished drawings, making clearly indicated revisions. Uses appropriate templates to draw curved lines. Assignments are designed to develop increasing skill in various drafting techniques. Work is spot-checked during progress and reviewed upon completion.

NOTE: Exclude drafters performing elementary tasks while receiving training in the most basic drafting methods.

Drafter II

Prepares drawings of simple, easily visualized parts of equipment from sketches or marked-up prints. Selects appropriate templates and other equipment needed to complete assignments. Drawings fit familiar patterns and present few technical problems. Supervisor provides detailed instructions on new assignments, gives guidance when questions arise, and reviews completed work for accuracy.

Drafter III

Prepares various drawings of parts and assemblies, including sectional profiles, irregular or reverse curves, hidden lines, and small or intricate details. Work requires use of most of the conventional drafting techniques and a working knowledge of the terms and procedures of the industry. Familiar or recurring work is assigned in general terms; unfamiliar assignments include information on methods, procedures, sources of information, and precedents to be followed. Simple revisions to existing drawings may be assigned with a verbal explanation of the desired results; more complex revisions are produced from sketches which clearly depict the desired product.

Drafter IV

Prepares complete sets of complex drawings which include multiple views, detail drawings, and assembly drawings. Drawings include complex design features that require considerable drafting skill to visualize and portray. Assignments regularly require the use of mathematical formulas to compute weights, load capacities, dimensions, quantities of materials, etc. Working from sketches and verbal information supplied by an engineer or designer, determines the most appropriate views, detail drawings, and supplementary information needed to complete assignments. Selects required information from precedents, manufacturers' catalogs, and technical guides. Independently resolves most of the problems encountered. Supervisor or designer may suggest methods of approach or provide advice on unusually difficult problems.

NOTE: Exclude drafters performing work of similar difficulty to that described at this level but who provide support for a variety of organizations which have widely differing functions or requirements.

Drafter V

Works closely with design originators, preparing drawings of unusual, complex or original designs which require a high degree of precision. Performs unusually difficult assignments requiring considerable initiative, resourcefulness, and drafting expertise. Assures that anticipated problems in manufacture, assembly, installation, and operation are resolved by the drawings produced. Exercises independent judgment in selecting and interpreting data based on a knowledge of the design intent. Although working primarily as a drafter, may occasionally perform engineering design work in interpreting general designs prepared by others or in completing missing design details. May provide advice and guidance to lower level drafters or serve as coordinator and planner for large and complex drafting projects.

ELECTRONICS TECHNICIAN

(3711: Electrical and electronic engineering technologist and technician)
(615: Electrical and electronic equipment repairer)

Works on various types of electronic equipment and related devices by performing one or a combination of the following: Installing, maintaining, repairing, overhauling, troubleshooting, modifying, constructing, and testing. Work requires practical application of technical knowledge of electronics principles, ability to determine malfunctions, and skill to put equipment in required operating condition.

The equipment—consisting of either many different kinds of circuits or multiple repetition of the same kind of circuit—includes, but is not limited to, the following: (a) Electronic transmitting and receiving equipment (e.g., radar, radio, television, telephone, sonar, navigational aids), (b) digital and analog computers, and (c) industrial and medical measuring and controlling equipment.

This classification excludes repairers of such standard electronic equipment as common office machines and household radio and television sets; production assemblers and testers; workers whose primary duty is servicing electronic test instruments; technicians who have administrative or supervisory responsibility; and drafters, designers, and professional engineers.

Positions are classified into levels on the basis of the following definitions:

Electronics Technician I

Applies working technical knowledge to perform simple or routine tasks in working on electronic equipment, following detailed instructions which cover virtually all procedures. Work typically involves such tasks as: Assisting higher level technicians by performing such activities as replacing components, wiring circuits, and taking test readings; repairing simple electronic equipment; and using tools and common test instruments (e.g., multimeters, audio signal generators, tube testers, oscilloscopes). Is not required to be familiar with the interrelationships of circuits. This knowledge, however, may be acquired through assignments designed to increase competence (including classroom training) so that worker can advance to higher level technician.

Receives technical guidance, as required, from supervisor or higher level technician. Work is typically spot-checked, but is given detailed review when new or advanced assignments are involved.

Electronics Technician II

Applies comprehensive technical knowledge to solve complex problems (i.e., those that typically *can* be solved solely by properly interpreting manufacturers' manuals or similar documents) in working on electronic equipment. Work involves: A familiarity with the interrelationships of circuits; and judgment in determining work sequence and in selecting tools and testing instruments, usually less complex than those used by the level III technician.

Receives technical guidance, as required, from supervisor or higher level technician, and work is reviewed for specific compliance with accepted practices and work assignments. May provide technical guidance to lower level technicians.

Electronics Technician III

Applies advanced technical knowledge to solve unusually complex problems (i.e., those that typically *cannot* be solved solely by reference to manufacturers' manuals or similar documents) in working on electronic equipment. Examples of such problems include location and density of circuitry, electromagnetic radiation, isolating malfunctions, and frequent engineering changes. Work involves: A detailed understanding of the interrelationships of circuits; exercising independent judgment in performing such tasks as making circuit analyses, calculating wave forms, tracing relationships in signal flow; and regularly using complex test instruments (e.g., dual trace oscilloscopes, Q-meters, deviation meters, pulse generators).

Work may be reviewed by supervisor (frequently an engineer or designer) for general compliance with accepted practices. May provide technical guidance to lower level technicians.

REGISTERED INDUSTRIAL NURSE

(29: Registered nurse)

A registered nurse gives nursing service under general medical direction to ill or injured employees or other persons who become ill or suffer an accident on the premises of a factory or other establishment. Duties involve *a combination of the following*: Giving first aid to the ill or injured; attending to subsequent dressing of employees' injuries; keeping records of patients treated; preparing accident reports for compensation or other purposes; assisting in physical examinations and health evaluations of applicants and employees; and planning and carrying out programs involving health education, accident prevention, evaluation of plant environment, or other activities affecting the health, welfare, and safety of all personnel. Nursing supervisors or head nurses in establishments employing more than one nurse are excluded.

Maintenance, Toolroom, and Powerplant

MAINTENANCE CARPENTER

(6422: Carpenter)

Performs the carpentry duties necessary to construct and maintain in good repair building woodwork and equipment such as bins, cribs, counters, benches, partitions, doors, floors, stairs, casings, and trim made of wood in an establishment. Work involves *most of the following*: Planning and laying out of work from blueprints, drawings, models, or verbal instructions; using a variety of carpenter's handtools, portable power tools, and standard measuring instruments; making standard shop computations relating to dimensions of work; and selecting materials necessary for the work. In general, the work of the maintenance carpenter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE ELECTRICIAN

(615: Electrical and electronic equipment repairer)
(6432: Electrician)

Performs a variety of electrical trade functions such as the installation, maintenance, or repair of equipment for the generation, distribution, or utilization of electric energy in an establishment. Work involves *most of the following*: Installing or repairing any of a variety of electrical equipment such as generators, transformers, switchboards, controllers, circuit breakers, motors, heating units, conduit systems, or other transmission equipment; working from blueprints, drawings, layouts, or other specifications; locating and diagnosing trouble in the electrical system or equipment; working standard computations relating to load requirements of wiring or electrical equipment; and using a variety of electrician's handtools and measuring and testing instruments. In general, the work of the maintenance electrician requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE PAINTER

(6442: Painter, construction and maintenance)

Paints and redecorates walls, woodwork, and fixtures of an establishment. Work *involves the following*: Knowledge of surface peculiarities and types of paint required for different applications; preparing surface for painting by removing old finish or by placing putty or filler in nail holes and interstices; and applying paint with spray gun or brush. May mix colors, oils, white lead, and other paint ingredients to obtain proper color or consistency. In general, the work of the maintenance painter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE MACHINIST

(613: Industrial machinery repairer)

Produces replacement parts and new parts in making repairs of metal parts of mechanical equipment operated in an establishment. Work involves *most of the following*: Interpreting written instructions and specifications; planning and laying out of work; using a variety of machinist's handtools and precision measuring instruments; setting up and operating standard machine tools; shaping of metal parts to close tolerances; making standard shop computations relating to dimensions of work, tooling, feeds, and speeds of machining; knowledge of the working properties of the common metals; selecting standard materials, parts, and equipment required for this work; and fitting and assembling parts into mechanical equipment. In general, the machinist's work normally requires a rounded training in machine-shop practice usually acquired through a formal apprenticeship or equivalent training and experience.

MAINTENANCE MECHANIC (MACHINERY)

(613: Industrial machinery repairer)

Repairs machinery or mechanical equipment of an establishment. Work involves *most of the following*: Examining machines and mechanical equipment to diagnose source of trouble; dismantling or partly dismantling machines and performing repairs that mainly involve the use of handtools in scraping and fitting parts; replacing broken or defective parts with items obtained from stock; ordering the production of a replacement part by a machine shop or sending the machine to a machine shop for major repairs; preparing written specifications for major repairs or for the production of parts ordered from machine shops; reassembling machines; and making all necessary adjustments for operation. In general, the work of a machinery maintenance mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. Excluded from this classification are workers whose *primary duties* involve setting up or adjusting machines.

MAINTENANCE PIPEFITTER

(645: Plumber, pipefitter, and steamfitter)

Installs or repairs water, steam, gas, or other types of pipe and pipefittings in an establishment. Work involves *most of the following*: Laying out work and measuring to locate position of pipe from drawings or other written specifications; cutting various sizes of pipe to correct lengths with chisel and hammer or oxyacetylene torch or pipe-cutting machines; threading pipe with stocks and dies; bending pipe by hand-driven or power-driven machines; assembling pipe with couplings and fastening pipe to hangers; making standard shop computations relating to pressures, flow, and size of pipe

required; and making standard tests to determine whether finished pipes meet specifications. In general, the work of the maintenance pipefitter requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience. *Workers primarily engaged in installing and repairing building sanitation or heating systems are excluded.*

MILLWRIGHT
(6178: Millwright)

Installs new machines or heavy equipment, and dismantles and installs machines or heavy equipment when changes in the plant layout are required. Work involves *most of the following*: Planning and laying out work; interpreting blueprints or other specifications; using a variety of handtools and rigging; making standard shop computations relating to stresses, strength of materials, and centers of gravity; aligning and balancing equipment; selecting standard tools, equipment, and parts to be used; and installing and maintaining in good order power transmission equipment such as drives and speed reducers. In general, the millwright's work normally requires a rounded training and experience in the trade acquired through a formal apprenticeship or equivalent training and experience.

MOTOR VEHICLE MECHANIC
(611: Vehicle and mobile equipment mechanic and repairer)

Repairs, rebuilds, or overhauls major assemblies of internal combustion automobiles, buses, trucks, or tractors of an establishment. Work involves most of the following: Diagnosing the source of trouble and determining the extent of repairs required; replacing worn or broken parts such as piston rings, bearings, or other engine parts; grinding and adjusting valves; rebuilding carburetors; overhauling transmissions; and repairing fuel injection, lighting, and ignition systems. In general, the work of the motor vehicle mechanic requires rounded training and experience usually acquired through a formal apprenticeship or equivalent training and experience.

This classification does not include mechanics who repair customers' vehicles or who only perform minor repair and tuneup of motor vehicles. It does, however, include fully qualified journeymen mechanics even though most of their time may be spent on minor repairs and tuneups.

GENERAL MAINTENANCE WORKER
(6179: Mechanic and repairer, not elsewhere classified)

Performs general maintenance and repair of building structures and their mechanical, electrical, or sanitary systems. May also perform general maintenance and repair of the establishment's machinery. Work requires a basic practical knowledge of several maintenance trades in order to perform most of the following: Keeping in good repair building woodwork; replacing electrical switches, fixtures, and motors; occasional painting or touching up of structure or equipment; repairing or replacing plumbing fixtures; and replacing broken window panes.

Excluded are positions requiring a formal apprenticeship or equivalent training in one or more crafts. Also excluded are workers participating in such a program.

MAINTENANCE TRADES HELPER
(863: Helper; mechanic and repairer)
(864: Helper; construction trades)

Assists one or more workers in the skilled maintenance trades by performing specific or general duties of lesser skill, such as keeping a worker supplied with materials and tools; cleaning working area, machine, and equipment; assisting journeyman by holding materials or tools; and performing other unskilled tasks as directed by journeyman. The kind of work the helper is permitted to perform varies from trade to trade: In some trades the helper is confined to supplying, lifting, and holding materials and tools, and cleaning working areas; and in others he is permitted to perform specialized machine operations, or parts of a trade that are also performed by workers on a full-time basis.

MACHINE-TOOL OPERATOR (TOOLROOM)
(6813: Machinist)
(731-2: Metalworking and plasticworking machine setup operator)

Specializes in operating one or more than one type of machine tool (e.g., jig borer, grinding machine, engine lathe, milling machine) to machine metal for use in making or maintaining jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). *Work typically involves*: Planning and performing difficult machining operations which require complicated setups or a high degree of accuracy; setting up machine tool or tools (e.g., install cutting tools and adjust guides, stops, working tables, and other controls to handle the size of stock to be machined; determine proper feeds, speeds, tooling, and operation sequence or select those prescribed in drawings, blueprints, or layouts); using a variety of precision measuring instruments; making necessary adjustments during machining operation to achieve requisite dimensions to very close tolerances. May be required to select proper coolants and cutting and lubricating oils, to recognize when tools need dressing, and to dress tools. In general, the work of a machine-tool operator (toolroom) at the skill level called for in this classification requires extensive knowledge of machine-shop and toolroom practice usually acquired through considerable on-the-job training and experience.

For cross-industry wage study purposes, this classification does *not* include machine-tool operators (toolroom) employed in tool and die jobbing shops.

TOOL AND DIE MAKER
(6811: Tool and die maker)

Constructs and repairs jigs, fixtures, cutting tools, gauges, or metal dies or molds used in shaping or forming metal or nonmetallic material (e.g., plastic, plaster, rubber, glass). *Work typically involves*: Planning and laying out work according to models, blueprints, drawings, or other written or oral specifications; understanding the working properties of common metals and alloys; selecting appropriate materials, tools, and processes required to complete task; making necessary shop computations; setting up and operating various machine tools and related equipment; using various tool and die maker's handtools and precision measuring instruments; working to very close tolerances; heat-treating metal parts and finished tools and dies to achieve required qualities; fitting and assembling parts to prescribed tolerances and allowances. In general, the tool and die maker's work requires rounded training in machine-shop and toolroom practice usually acquired through formal apprenticeship or equivalent training and experience.

For cross-industry wage study purposes, this classification does *not* include tool and die makers who (1) are employed in tool and die jobbing shops or (2) produce forging dies (die sinkers).

STATIONARY ENGINEER

(6931: Stationary engineer)

Operates and maintains one or more systems which provide an establishment with such services as heat, air-conditioning (cool, humidify, dehumidify, filter, and circulate air), refrigeration, steam or high-temperature water, or electricity. Duties involve: Observing and interpreting readings on gauges, meters, and charts which register various aspects of the system's operation; adjusting controls to insure safe and efficient operation of the system and to meet demands for the service provided; recording in logs various aspects of the system's operation; keeping the engines, machinery, and equipment of the system in good working order. May direct and coordinate activities of other workers (not stationary engineers) in performing tasks directly related to operating and maintaining the system or systems.

The classification excludes head or chief engineers in establishments employing more than one engineer; workers required to be skilled in the repair of electronic control equipment; workers in establishments producing electricity, steam, or heated or cooled air primarily for sale; and boiler tenders.

Material Movement and Custodial

TRUCKDRIVER

(821: Motor vehicle operator)

Drives a truck within a city or industrial area to transport materials, merchandise, equipment, or workers between various types of establishments such as: Manufacturing plants, freight depots, warehouses, wholesale and retail establishments, or between retail establishments and customers' houses or places of business. May also load or unload truck with or without helpers, make minor mechanical repairs, and keep truck in good working order. *Salesroute and over-the-road drivers are excluded.*

For wage study purposes, truckdrivers are classified by type and rated capacity of truck, as follows:

Truckdriver, light truck
(straight truck, under 1 1/2 tons, usually 4 wheels)
Truckdriver, medium truck
(straight truck, 1 1/2 to 4 tons inclusive, usually 6 wheels)
Truckdriver, heavy truck
(straight truck, over 4 tons, usually 10 wheels)
Truckdriver, tractor-trailer

SHIPPER AND RECEIVER

(4753: Traffic, shipping and receiving clerk)

Performs *clerical and physical* tasks in connection with shipping goods of the establishment in which employed and receiving incoming shipments. In performing day-to-day, routine tasks, follows established guidelines. In handling unusual nonroutine problems, receives specific guidance from supervisor or other officials. May direct and coordinate the activities of other workers engaged in handling goods to be shipped or being received.

Shippers typically are responsible for most of the following: Verifying that orders are accurately filled by comparing items and quantities of goods gathered for shipment against documents; insuring that shipments are properly packaged, identified with shipping information, and loaded into transporting vehicles; preparing and keeping records of goods shipped, e.g., manifests, bills of lading.

Receivers typically are responsible for most of the following: Verifying the correctness of incoming shipments by comparing items and quantities unloaded against bills of lading, invoices, manifests, storage receipts, or other records; checking for damaged goods; insuring that goods are appropriately identified for routing to departments within the establishment; preparing and keeping records of goods received.

For wage study purposes, workers are classified as follows:

Shipper
Receiver
Shipper and receiver

WAREHOUSEMAN

(4754: Stock and inventory clerk)

As directed, performs a *variety* of *warehousing* duties which require an *understanding of the establishment's storage plan.* Work involves *most of the following:* Verifying materials (or merchandise) against receiving documents, noting and reporting discrepancies and obvious damages; routing materials to prescribed storage locations; storing, stacking, or palletizing materials in accordance with prescribed storage methods; rearranging and taking inventory of stored materials; examining stored materials and reporting deterioration and damage; removing material from storage and preparing it for shipment. May operate hand or power trucks in performing warehousing duties.

Exclude workers whose *primary* duties involve shipping and receiving work (see Shipper and receiver and Shipping packer), order filling (see Order filler), or operating power trucks (see Power-truck operator).

ORDER FILLER

(4754: Stock and inventory clerk)

Fills shipping or transfer orders for finished goods from stored merchandise in accordance with specifications on sales slips, customers' orders, or other instructions. May, in addition to filling orders and indicating items filled or omitted, keep records of outgoing orders, requisition additional stock or report short supplies to supervisor, and perform other related duties.

SHIPPING PACKER

(8761: Hand packer and packager)

Prepares finished products for shipment or storage by placing them in shipping containers, the specific operations performed being dependent upon the type, size, and number of units to be packed, the type of container employed, and method of shipment. Work requires the placing of items in shipping containers and *may involve one or more of the following:* Knowledge of various items of stock in order to verify content; selection of appropriate type and size of container; inserting enclosures in container; using excelsior or other material to prevent breakage or damage; closing and sealing container; and applying labels or entering identifying data on container. *Packers who also make wooden boxes or crates are excluded.*

MATERIAL HANDLING LABORER

(8726: Freight, stock, and material mover, not elsewhere classified)

Performs physical tasks to transport or store materials or merchandise. Duties involve *one or more of the following:* Manually loading or unloading freight cars, trucks, or other transporting devices; unpacking, shelving, or placing items in proper storage locations; or transporting goods by handtruck, cart, or wheelbarrow.

Excluded from this definition are workers whose primary function involves:

a. Participating directly in the production of goods (e.g., moving items from one production station to another or placing them on or removing them from the production process);
b. Stocking merchandise for sale;
c. Counting or routing merchandise;
d. Operating a crane or heavy-duty motorized vehicle such as forklift or truck;
e. Loading and unloading ships (longshore workers); or
f. Traveling on trucks beyond the establishment's physical location to load or unload merchandise.

POWER-TRUCK OPERATOR

(8318: Industrial truck and tractor equipment operator)

Operates a manually controlled gasoline- or electric-powered truck or tractor to transport goods and materials of all kinds about a warehouse, manufacturing plant, or other establishment.

For wage study purposes, workers are classified by type of powertruck, as follows:

Forklift operator

Power-truck operator (other than forklift)

GUARD

(5144: Guard and police, except public service)

Protects property from theft or damage, or persons from hazards or interference. Duties involve serving at a fixed post, making rounds on foot or by motor vehicle, or escorting persons or property. May be deputized to make arrests. May also help visitors and customers by answering questions and giving directions.

Guards employed by establishments which provide protective services on a contract basis are included in this occupation.

For wage study purposes, guards are classified as follows:

Guard I

Carries out instructions primarily oriented toward insuring that emergencies and security violations are readily discovered and reported to appropriate authority. Intervenes directly only in situations which require minimal action to safeguard property or persons. Duties require minimal training. Commonly, the guard is not required to demonstrate physical fitness. May be armed, but generally is not required to demonstrate proficiency in the use of firearms or special weapons.

Guard II

Enforces regulations designed to prevent breaches of security. Exercises judgment and uses discretion in dealing with emergencies and security violations encountered. Determines whether first response should be to intervene directly (asking for assistance when deemed necessary and time allows), to keep situation under surveillance, or to report situation so that it can be handled by appropriate authority. Duties require specialized training in methods and techniques of protecting security areas. Commonly, the guard is required to demonstrate continuing physical fitness and proficiency with firearms or other special weapons.

JANITOR, PORTER, OR CLEANER

(5244: Janitor and cleaner)

Cleans and keeps in an orderly condition factory working areas and washrooms, or premises of an office, apartment house, or commercial or other establishment. Duties involve *a combination of the following*: Sweeping, mopping or scrubbing, and polishing floors; removing chips, trash, and other refuse; dusting equipment, furniture, or fixtures; polishing metal fixtures or trimmings; providing supplies and minor maintenance services; and cleaning lavatories, showers, and restrooms. *Workers who specialize in window washing are excluded.*

Area Wage Survey Summaries

The following areas are surveyed periodically under contract to the Employment Standards Administration of the U.S. Department of Labor for its use in administering the Service Contract Act of 1965. Reports on the surveys shown below are available at no cost from any of the Bureau's regional offices while supplies last.

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Ann Arbor, MI
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Atlantic City, NJ
Augusta, GA-SC[1]
Bakersfield, CA
Baton Rouge, LA
Battle Creek, MI
Beaumont-Port Arthur and Lake Charles, TX-LA
Biloxi-Gulfport and Pascagoula, MS
Binghamton, NY
Birmingham, AL
Bloomington-Vincennes, IN
Bremerton-Shelton, WA
Brunswick, GA
Cedar Rapids, IA
Chattanooga, TN-GA
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[1] In 1989, this area is scheduled to be surveyed under the Bureau's regular area wage survey program. See inside back cover.

[2] Scheduled to be surveyed in this program for the first time in 1989. In 1986, the area was surveyed under the Bureau's regular area wage survey program. See inside back cover.

Employee Benefits in State and Local Governments, 1987

U.S. Department of Labor
Bureau of Labor Statistics
Bulletin 2309

The Bureau of Labor Statistics issues its first bulletin on employee benefits in State and local goverments.

Data available

- Incidence and detailed characteristics of 14 employee benefits paid for at least in part by employer: Lunch and rest periods, holidays, vacations, and personal, funeral, jury-duty, military, and sick leave, sickness and accident, long-term disability, health, and life insurance, and retirement/capital accumulation plans. Retirement data include defined benefit plans and defined contribution plans, such as savings and thrift plans with salary reduction arrangements permitted under the Internal Revenue Code.
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Coverage

- Major benefits in State and local government establishments of the United States, except Alaska and Hawaii.
- Local governments with at least 50 employees, and the entire State government for States.

Source of data

- Sample of about 869 government units, including 24 States and 845 local government establishments; primarily by personal interview.

★U.S. Government Printing Office: 1989-241-386/00032

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- Benefit administration in public and private employment.
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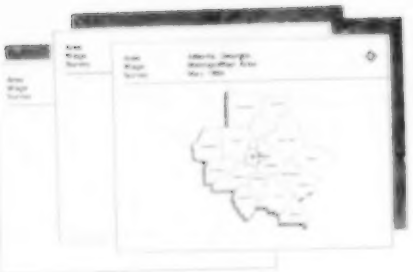

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